ſ	PROJECT		DESIGNATI	ON
l	HCHD PB-13-0	003		
l			BRIDGE FI	
			HAMILTION	303
Ì				
	CTOUCTURE		TVOC	
1	STRUCTURE		TYPE	
1	,	_		

HAMILTION 303						
		INDEX	andre a serie de la comencia de la comencia de la come ncia de la comencia del la comencia de la comencia del la comencia de la comencia del la comencia de la comencia del la comenc			
STRUCTURE	TYPE	SPAN AND SKEW	OVER	STATION		
HAMILTON BRIDGE 303	CONTINUOUS REINFORCED CONCRETE SLAB BRIDGE	2 SPAN 28'-0", 15'-0" SKEW 00'00'00"	TAYLOR DITCH	© STRUCTURE 17+21.00 LINE 'A'		
SHEET NO.		SUBJECT				
1	TITLE SHEET			 		
2	TYPICAL SECTIONS					
3	MAINTENANCE OF TRAFFIC					
4–5	PLAN AND PROFILE					
6	EROSION CONTROL DETAILS	100 1-2000				
7 LAYOUT						
8-9	GENERAL PLANS	1.7755040-1				
10–13	BENT DETAILS	**************************************				
14–15	FLOOR DETAILS					
16	APPROACH SLAB					
17	SUMMARY OF BRIDGE QUAN	TITIES				
18	MISCELLANEOUS TABLES					
	TAYLOR CREEK DRAIN	- Company of the Comp		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
19	EXISTING SITE PLAN	-0.0 to -1 t				
20-21	LAYOUT PLAN			Vine Sales and S		
22-23	GRADING PLAN					
24	PROFILE VIEW LINE 'T'					
25-26	EROSION CONTROL PLAN					
27–28	EROSION CONTROL DETAILS					
20. 71	CROSS SECTIONS			N		
29-31	LINE 'T'					
32–39	LINE 'A'					

HAMILTON COUNTY

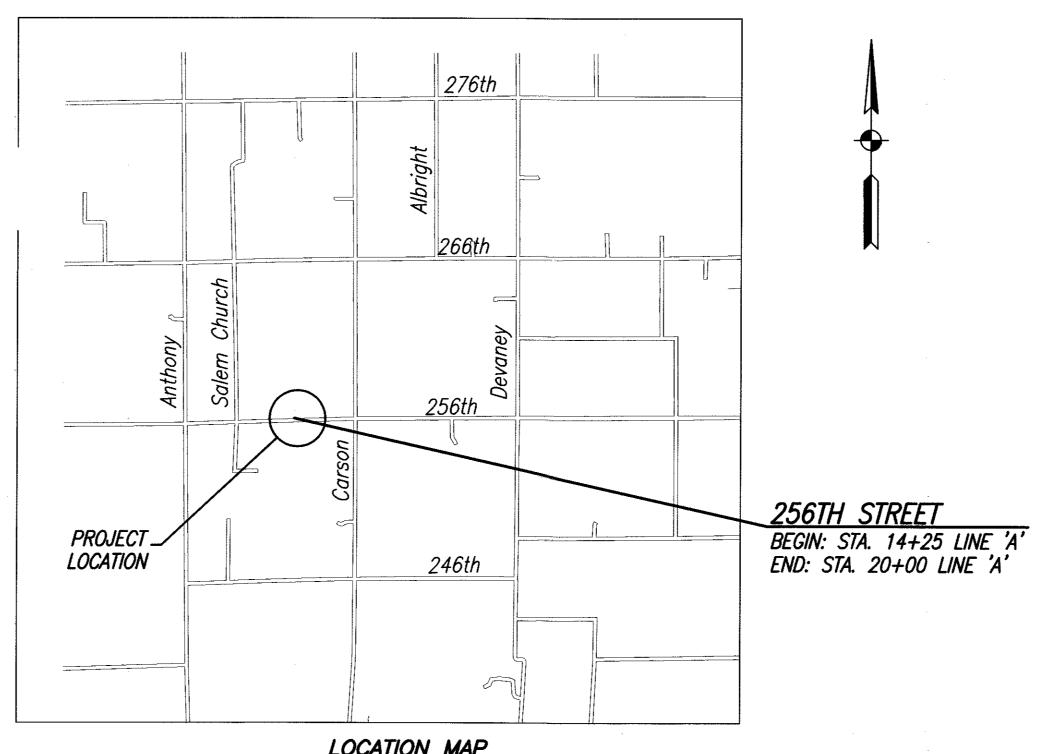
REPLACEMENT PLAN FOR

SS#32028 [BRIDGE 303] 256th STREET/TAYLOR DITCH AND RECONSTRUCTION OF TAYLOR CREEK DITCH



JACKSON TOWNSHIP HAMILTON COUNTY, INDIANA HCHD PB-13-0003

SMALL STRUCTURE #32028 IS LOCATED APPROXIMATELY 875 FEET WEST OF THE INTERSECTION OF 256TH STREET AND CAL CARSON ROAD OVER TAYLOR DITCH, IN THE ARCADIA USGS QUADRANGLE, SECTIONS 20 AND 29, TOWNSHIP 20 NORTH, RANGE 4 EAST, AND ALL WITHIN JACKSON TOWNSHIP, HAMILTON COUNTY, INDIANA.



LOCATION MAP HAMILTON COUNTY NOT TO SCALE

6/30/2014

CERTIFIED THIS DATE:

No. 10707439

STATE OF INDIANAPOLIS, INDIANA 46204 PHONE: (317) 633-4120

SCALE: 1" = 20'PROFILE VERT SCALE: 1" = 5SCALE: 1" = 30'

TRAFFIC DATA

DESIGN DATA

2016

2036

UTILITY CONTACT INFORMATION

LEGEND

CONIFEROUS TREE

DECIDUOUS TREE

SHRUB

TREE LINE

STREAM/DITCH

POWER POLE

UTILITY POLE

GUARDRAIL

CONTOUR

UNDERGROUND GAS

UNDERGROUND CABLE

UNDERGROUND TELEPHONE

FENCE

REVISIONS

SHEET NO.

TELEPHONE

FRONTIER COMMUNCATIONS

STEVE.COSTLOW@FTR.COM

ELECTRIC (TRANSMISSION)

DUKE ENERGY (TRANSIMISSION) 2727 CENTRAL AVENUE

GARY.McNAMEE@DUKE.ENERGY.COM

PROPOSED

20905 HAGUE ROAD NOBLESVILLE, IN 46060

COLUMBUS, IN 47201 GARY S. McNAMEE (812) 375–2021

STEVE COSTLOW

(317) 984-9010

A.A.D.T.

A.A.D.T. PROJECTED

PROJECT DESIGN CRITERIA FUNCTIONAL CLASSIFICATION

DESIGN SPEED

RURAL/URBAN

ACCESS CONTROL

REGULATED DRAIN

100 SOUTH MILLCREEK ROAD

CINDY.ROWLAND@DUKEENERGY.COM

NOBLESVILLE, IN 46062

TERRAIN

ELECTRIC

MANAMA

DATE

DUKE ENERGY

CINDY ROWLAND

(317) 776-5341

E 256TH STREET

395 V.P.D.

715 V.P.D.

55 M.P.H.

RURAL

LEVEL

NONE

3R ARTERIAL

YES — OPEN STREAM

FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

No.
860383

STATE OF
NO.
860383

CERTIFIED THIS DATE: 07-25-2016

CERTIFIED THIS DATE: 7/26/2016

SCALES:

CHRISTINE ALTMAN, MEMBER

HAMILTON COUNTY BOARD OF COMMISSIONERS

ATTEST: Dawn Coverdale DAWN COVERDALE, COUNTY AUDITOR

DATE: 7-25-2016

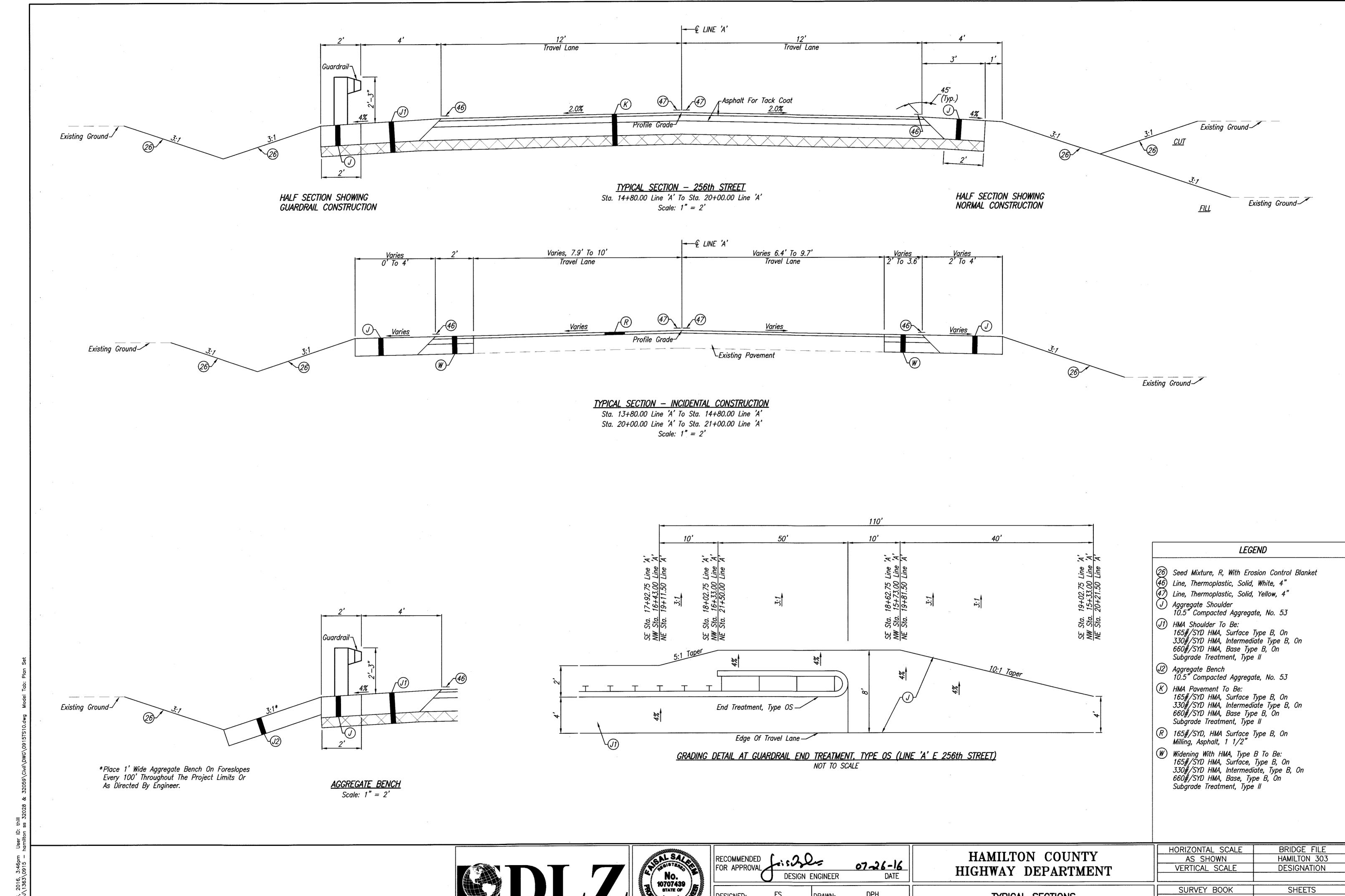
APPROVED BY:

RECOMMENDED Brookly JOEL B. THURMAN, P.E. ACTING COUNTY ENGINEER

DATE: July 25, 2016

INDIANA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS DATED 2014 TO BE USED WITH THESE PLANS.

DLZ PROJECT NO. 1363-0915-90



TYPICAL SECTIONS

EAST 256th STREET

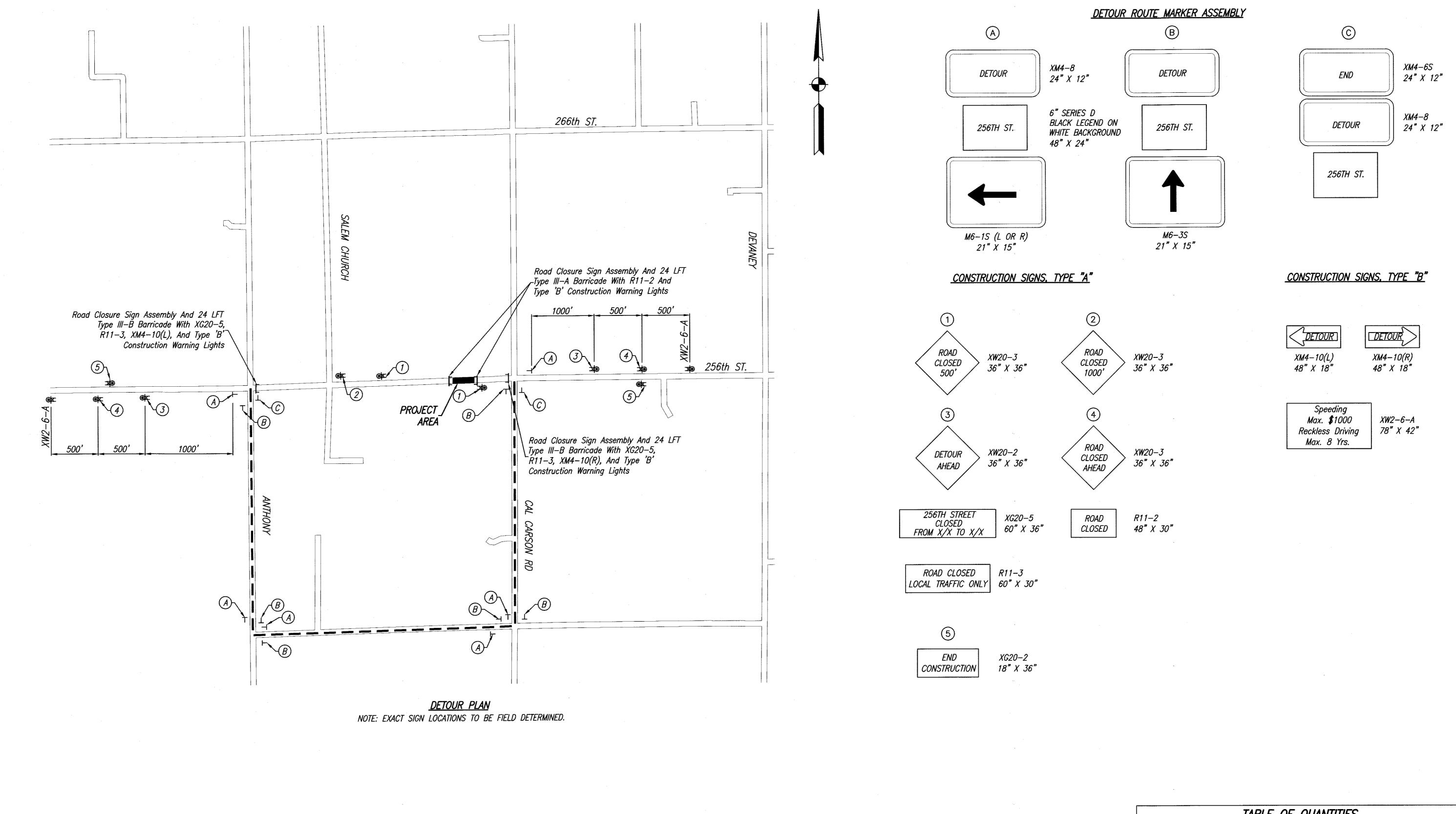
CHECKED:_

ELECTRONIC

CONTRACT

2 of 39 PROJECT

HCHD PB-13-0003



Type III-A Or III-B Barricade

Type "A" Construction Warning Light

Road Closure Sign Assembly

Detour Route Marker Assembly

Local Detour Route

Project Area

NOTES

1. All Signs, Barricades, And Pavement Markings Shall Conform To The Indiana Manual On Traffic Control Devices For Streets And Highways, 2011 And Any Current Supplements Thereto.

2. Contractor Shall Maintain Access To All Commercial And Private Properties During Construction.

TABLE OF QUANTITIES		
ITEM	TOTAL	
CONSTRUCTION SIGNS, TYPE "A"	14 EACH	
CONSTRUCTION SIGNS, TYPE "B"	2 EACH	
CONSTRUCTION SIGNS, TYPE "C"	2 EACH	
STANDARD BARRICADE, TYPE III—A	48 LFT	
STANDARD BARRICADE, TYPE III—B	48 LFT	
DETOUR ROUTE MARKER ASSEMBLY	14 EACH	
ROAD CLOSURE SIGN ASSEMBLY	4 EACH	





RECOMMENDED FOR APPROVAL	DESIGN I	Pr. 07-26-16 ENGINEER DATE		
DESIGNED:	FS	DRAWN:	DPH	
CHECKED:	FS	CHECKED:	FS	

HAMILT	ON	COUNTY
HIGHWAY	DE	PARTMENT

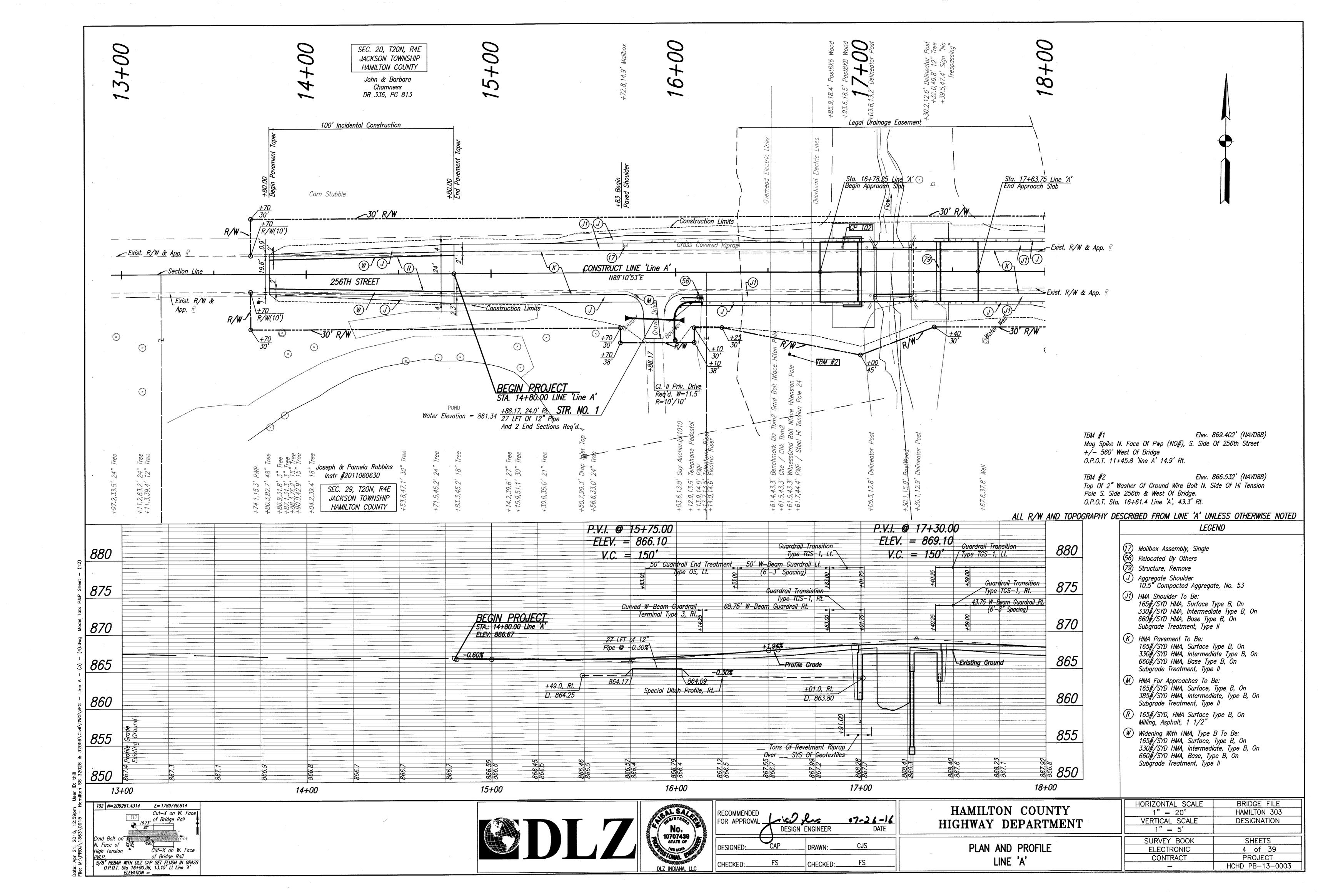
MAINTENANCE OF TRAFFIC

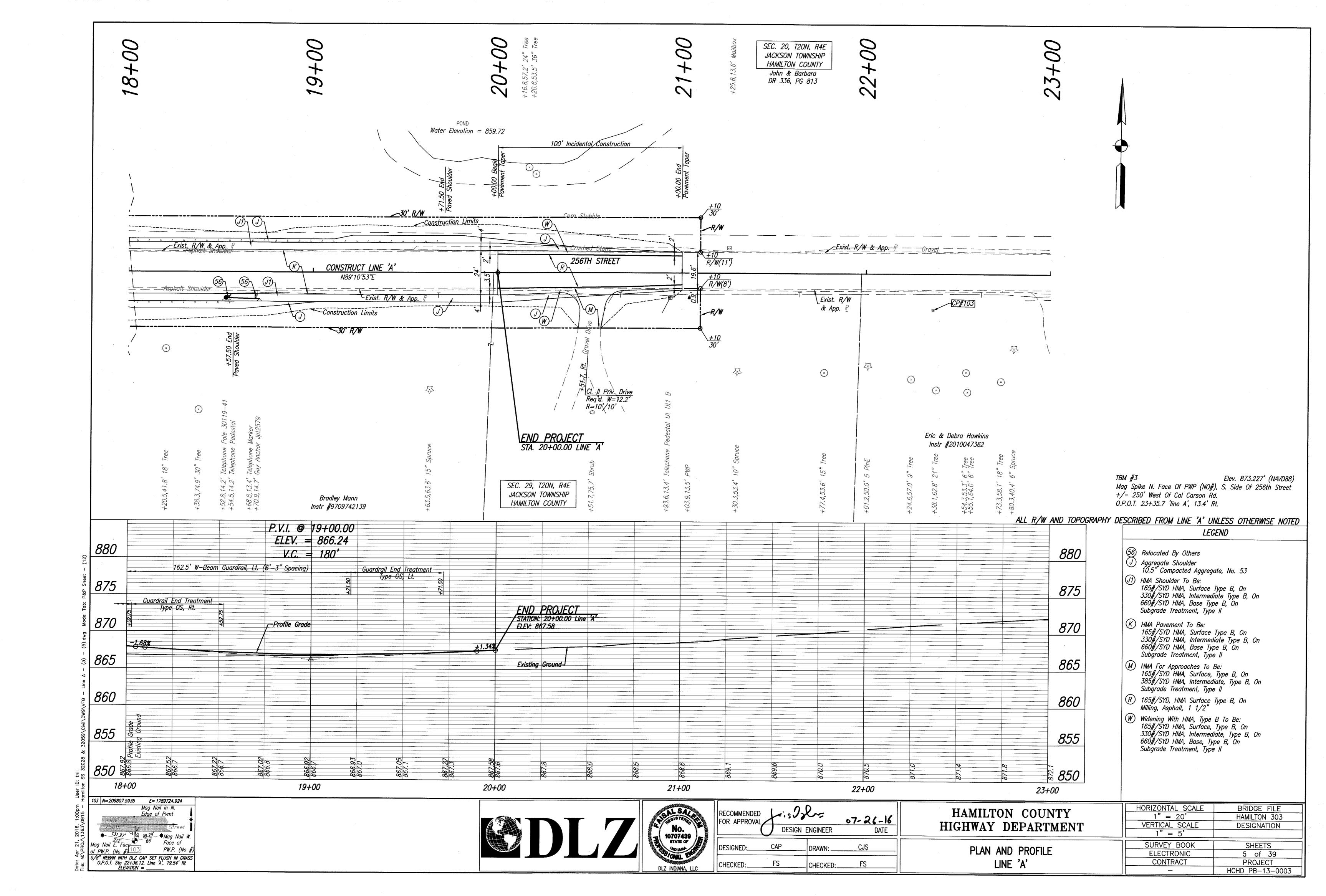
DETOUR MAP - E 256TH STREET

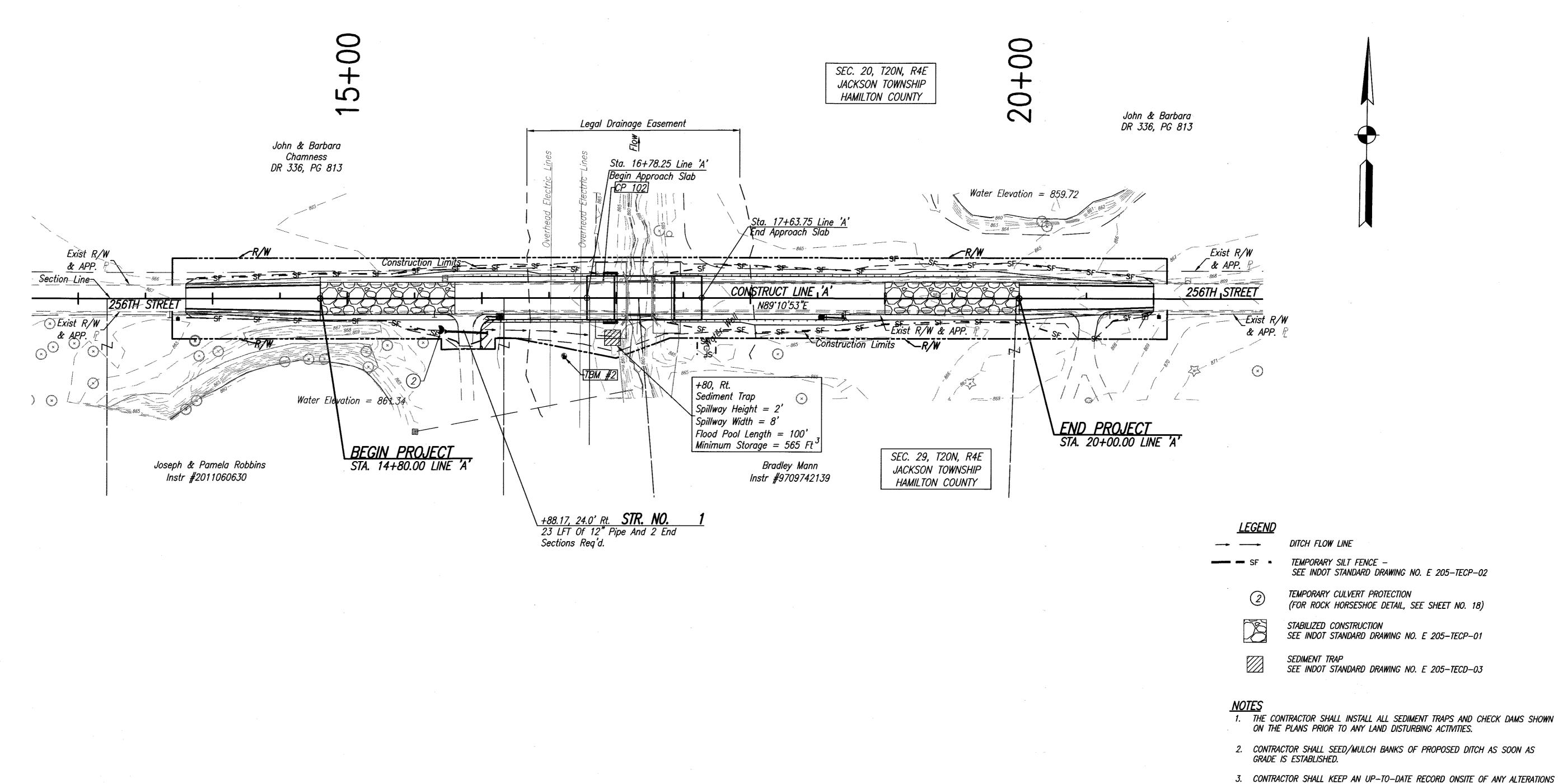
NOT TO SCALE	HAMILTON 303
VERTICAL SCALE	DESIGNATION
SURVEY BOOK	SHEETS
ELECTRONIC	3 of 39
CONTRACT	PROJECT

BRIDGE FILE

HCHD PB-13-0003







TO THE STORMWATER POLLUTION PREVENTION PLAN.

4. CONTRACTOR SHALL NOTIFY THE HAMILTON COUNTY SOIL AND WATER CONSERVATION DISTRICT AT LEAST 48 HOURS TO BEGINNING OF CONSTRUCTION.

5. THE CONTRACTOR HAS FULL RESPONSIBILITY OF INSPECTING THE EROSION CONTROL MEASURES ON A DAILY BASIS. AT A MINIMUM, PRACTICES NEED TO BE INSPECTED WEEKLY, WITHIN 24 HOURS AFTER EACH STORM EVENT OVER 1/2 INCH AND DAILY DURING PROLONGED STORM EVENTS. FAILING PRACTICES SHALL BE REPAIRED OR REPLACED IMMEDIATELY.

6. ANY SEDIMENT TRACKED OUT OF PROJECT AREA ONTO PUBLIC STREETS MUST BE CLEANED UP THE SAME DAY IT OCCURS.

7. CONTRACTOR SHALL SUBMIT CONSTRUCTION STAGING PLAN DETAILING ALL VEHICLE AND EQUIPMENT PARKING AREAS, FUELING LOCATIONS, CONSTRUCTION TRAILER PLACEMENT, AND DESIGNATED CONCRETE TRUCK WASHOUT AREAS.

8. IF CONSTRUCTION WINDOW EXTENDS THROUGH WINTER, TEMPORARY MULCHING AS SPECIFIED IN CHAPTER 7 OF THE INDIANA STORMWATER QUALITY MANUAL SHALL BE REQUIRED.

9. TEMPORARY SEEDING SHALL BE INSTALLED ON ANY CLEARED AREA THAT WILL BE UNDISTURBED FOR 15 DAYS OR MORE.

10. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN AND CONTAIN CONCRETE WASHOUT AREAS AND STAGING AREAS.

11. CONTRACTOR IS REQUIRED TO PROVIDE A SPILL PREVENTION AND CONTAINMENT PLAN PRIOR TO BEGINNING CONSTRUCTION.

12. INSTALL PERMANENT RIPRAP ON THE SIDE SLOPES AT BRIDGE IMMEDIATELY AFTER THE COMPLETION OF THE PILING OPERATIONS.

			ERO	DSION	CONTROL	TABLE	***		
LOCATION			DITCH INLET PROTECTION		REVETMENT RIP RAP				
							GEOTEXTILE	REVETMENT RIP RAP	FILTER STONE
STATION	TO STATION	LEFT	MEDIAN	RIGHT	EACH	LFT	SYS	TON	TON
LINE 'A'									
13+50	16+80	X				300			
13+50	16+00			Χ		220			
16+50	21+00	X				450			.,, .
16+50	21+00			Χ		450			
TOTAL		1				1420			



Apr 21, 2016, 1:00p M:\PROJ\1363\0915



DOUGGO TO	RECOMMENDED FOR APPROVAL _		Dolog ENGINEER	07-26-16 DATE	
and a supplementation of the supplementation	DESIGNED:	CAP	DRAWN:	CJS	
-	CHECKED:	FS	CHECKED:	FS	

HAMILTON COUNTY HIGHWAY DEPARTMENT	
EROSION CONTROL PLAN	
EAST 256th STREET	

HORIZONTAL SCALE

1" = 40'

VERTICAL SCALE

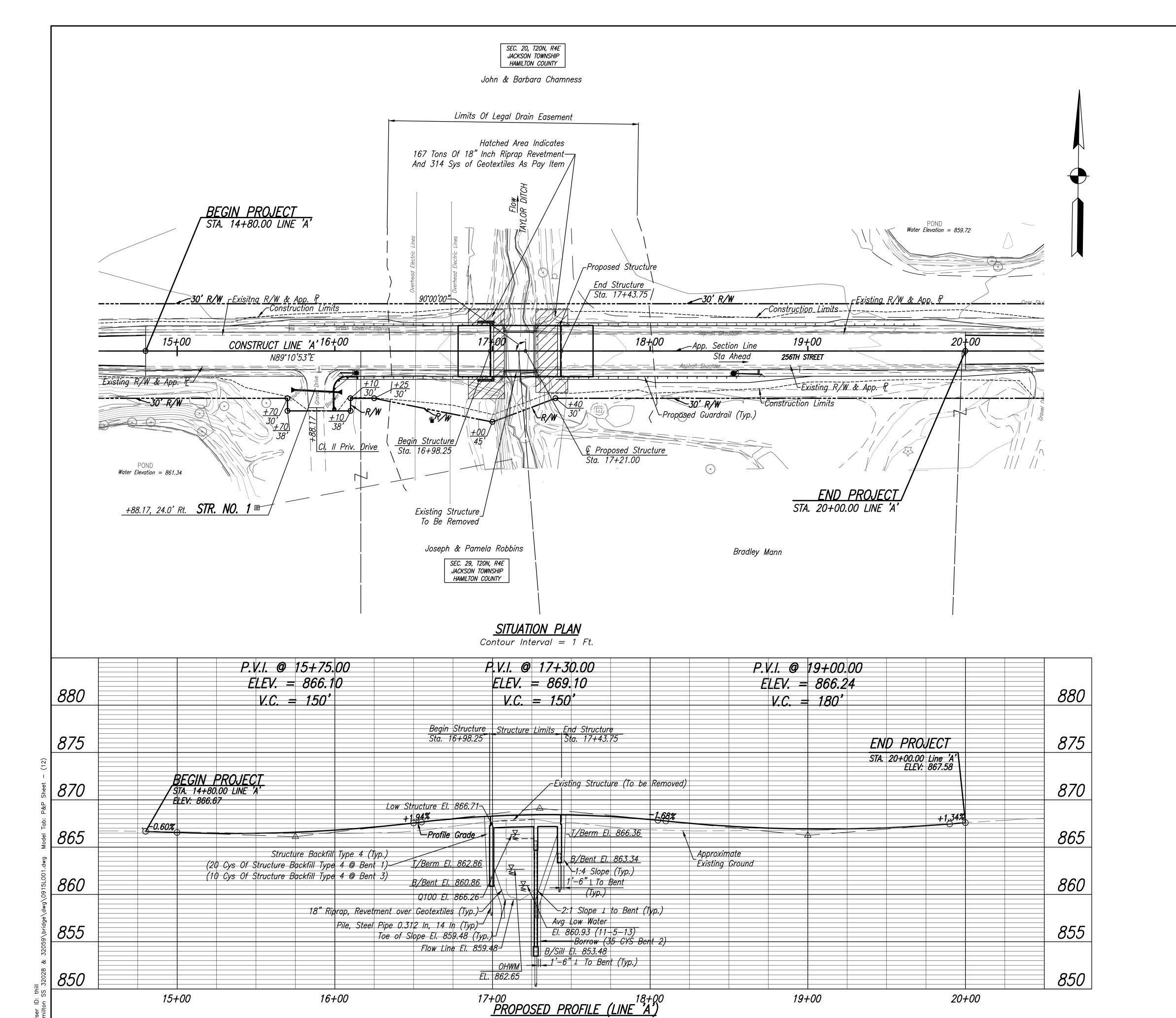
1" = 5'

SURVEY BOOK

ELECTRONIC

CONTRACT

HCHD PB-13-0003



PRESENT STRUCTURE

The Existing Small Structure Will Be Removed. The Existing Structure Is A Reinforced Slab Structure With A Span Of 17'-10". Existing Plans Of The Structure Are Not

TAYLOR DITCH

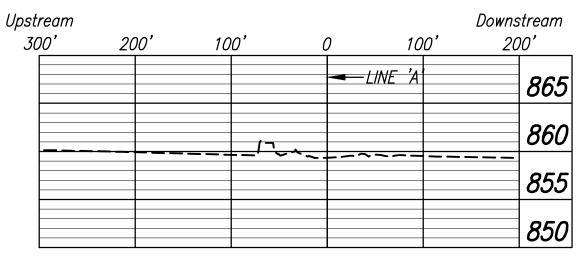
The Drainage Area Is 3.66 Sq. Miles Of Level Terrain And Cultivated Land. The Structure Is Located Approximately 2.8 Miles Upstream Of Little Ciscero Creek Which Flows Into The White River.

<u>NOTES</u>

- 1. See Plan And Profile For Additional Work, Benchmarks, Profile Grade Data And Additional Details.
- 2. All Topography Taken From Line 'A'
- All R/W Taken From Line 'A' Except As Noted Otherwise.
- 4. For Ditch Work and Associated Construction Limits, See Sheets 18–29.

HYDRAULIC DATA

Drainage Area	3.66 Sq. Mi.
Q_{100}	1250 cfs
El. @ Q ₁₀₀	866.26
Velocity @ Q ₁₀₀	6.08 fps
Gross Waterway Opening Required	•
Below Q ₁₀₀ El. (Structure)	206 SFT
Gross Waterway Opening Provided	
Below Q ₁₀₀ El. (Structure)	211 SFT
Proposed Road Overflow Area	0.00 SFT
Min'imum Low Structure Elev. Provided	866.71
Skew Angle	00°00'00"
Existing Waterway Opening	
Below Q₁∞ Él. (Structure)	106 SFT
Existing Road Overflow Area	0.00 SFT
Existing Low Structure Elev.	865.80
Change In Backwater	−2.66 Ft.
Scour Depth	<i>853.16</i>
r	



PROFILE OF TAYLOR DITCH

Horizontal Scale: 1" = 100', Vertical Scale: 1" = 10'

256th STREET OVER TAYLOR DITCH
CONTINUOUS REINFORCED CONCRETE SLAB BRIDGE
2 SPAN: 28'-0" X 15'-0"

SKEW: 00'00'00"

CLEAR ROADWAY WIDTH: 32'-0"

HAMILTON COUNTY

HORIZONTAL SCALE

1" = 30'

BRIDGE FILE

HAMILTON 303

DESIGNATION

SHEETS
7 of 39
PROJECT
HCHD PB-13-0003

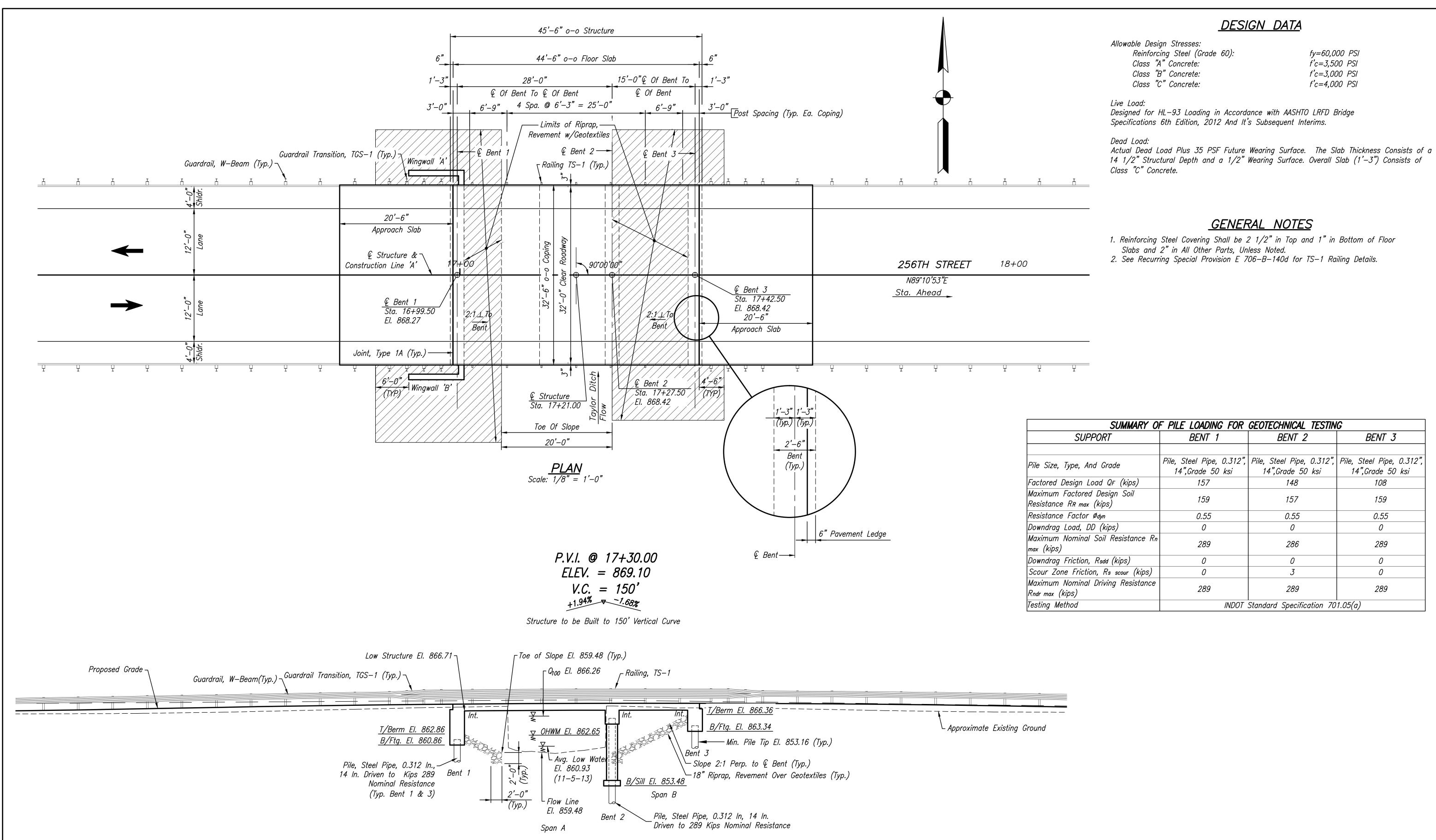




RECOMMENDED Whichael & Lummith			7/25/2016
	DESIGN	ENGINEER	DATE
DESIGNED:	JFM	DRAWN:	CJS
CHECKED:	DOR	CHECKED:	JFM

HAMILTON COUNTY HIGHWAY DEPARTMENT

Y DEPARTMENT	VERTICAL SCALE	
DELACTMENT	1" = 5'	
201005 707	SURVEY BOOK	
BRIDGE 303	ELECTRONIC	
LAYOUT	CONTRACT	
LAIUUI		



256th STREET OVER TAYLOR DITCH
CONTINUOUS REINFORCED CONCRETE SLAB BRIDGE
2 SPANS: 28'-0", 15'-0"
SKEW: 00'00'00"
CLEAR ROADWAY WIDTH: 32'-0"
HAMILTON COUNTY

CONTRACT

PROJECT

HCHD PB-13-0003



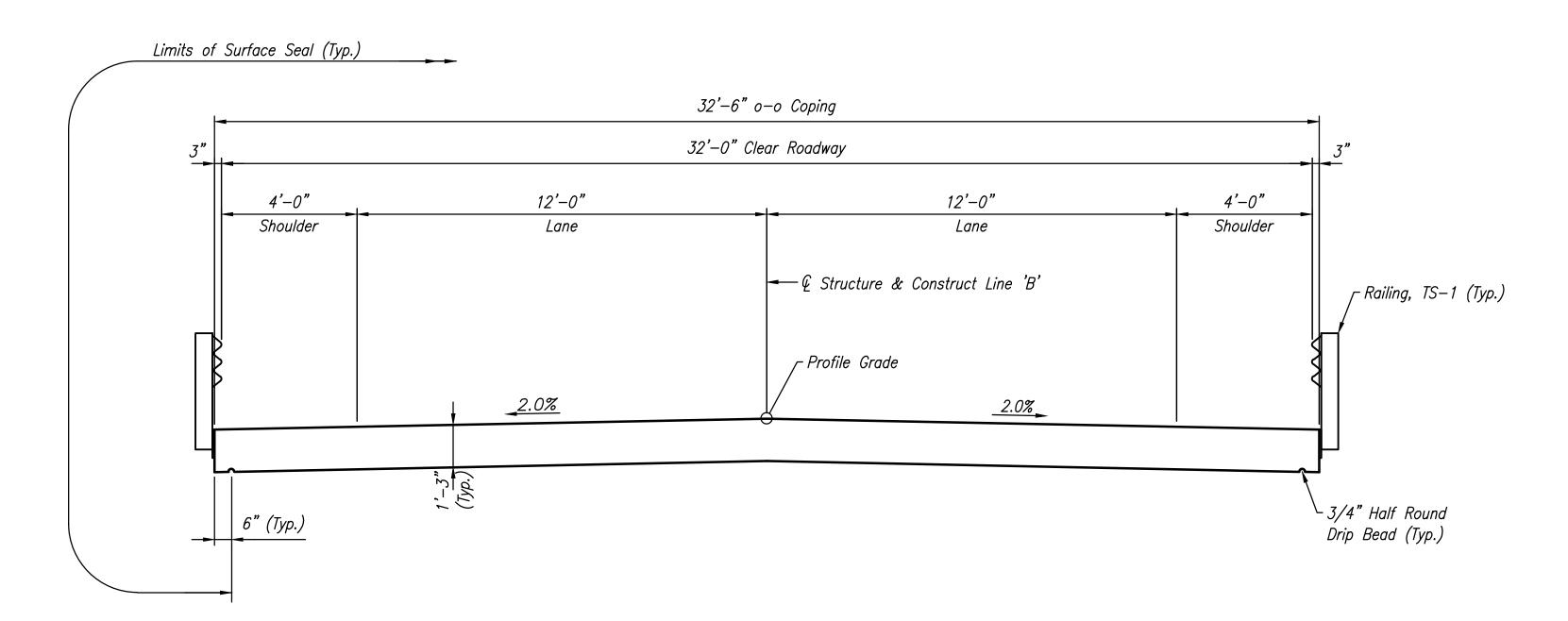
<u>ELEVATION</u> Scale: 1/8" = 1'-0"



RECOMMENDED FOR APPROVAL	Michael A	Michael & Kummeth	
	DESIGN ENGINEER		DATE
DESIGNED:	JFM	DRAWN:	Jlm
CHECKED.	DOR	CHECKED.	JFM

HAMIL MONL COLLNING	HORIZONTAL SCALE	BRIDGE FILE
HAMILTON COUNTY	1/8" = 1'-0"	HAMILTON 303
HIGHWAY DEPARTMENT	VERTICAL SCALE	DESIGNATION
HOHWAT DELAKTMENT	1/8" = 1'-0"	
DDIDOE 707	SURVEY BOOK	SHEETS
BRIDGE 303	ELECTRONIC	8 of 39

GENERAL PLAN



Scale: 3/8" = 1"-0"

<u>256th STREET OVER TAYLOR DITCH</u> CONTINUOUS REINFORCED CONCRETE SLAB BRIDGE 2 SPANS: 28'-0", 15'-0" SKEW: 00°00'00" CLEAR ROADWAY WIDTH: 32'-0" HAMILTON COUNTY

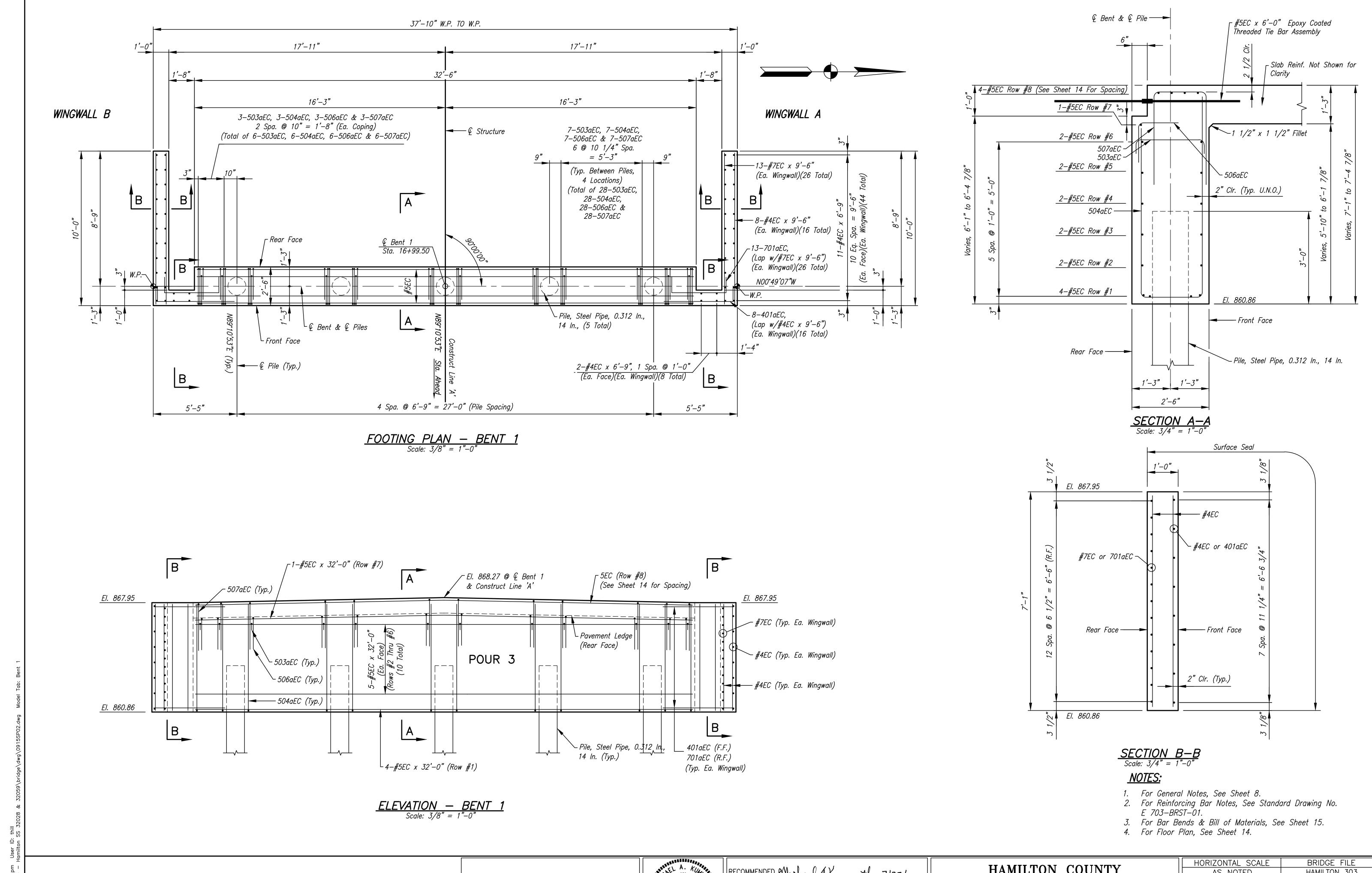




RECOMMENDED FOR APPROVAL	Michael A	Kummeth	7/25/2016
	DESIGN E	ENGINEER	DATE
DESIGNED:	JFM	DRAWN:	Jlm
CHECKED:	DOR	CHECKED:	JFM

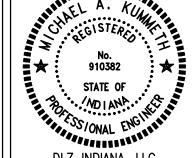
HAMILTO	ON COUNTY
HIGHWAY	DEPARTMENT

ALL TONI COLINITY	HORIZONTAL SCALE	BRIDGE FILE
MILTON COUNTY	3/8" = 1"-0"	HAMILTON 303
WAY DEPARTMENT	VERTICAL SCALE	DESIGNATION
WAI DELAKTMENT	3/8" = 1"-0"	
	SURVEY BOOK	SHEETS
BRIDGE 303		
DIVIDGE 202	ELECTRONIC	9 of 39
GENERAL PLAN	CONTRACT	PROJECT
	_	HCHD PB-13-0003



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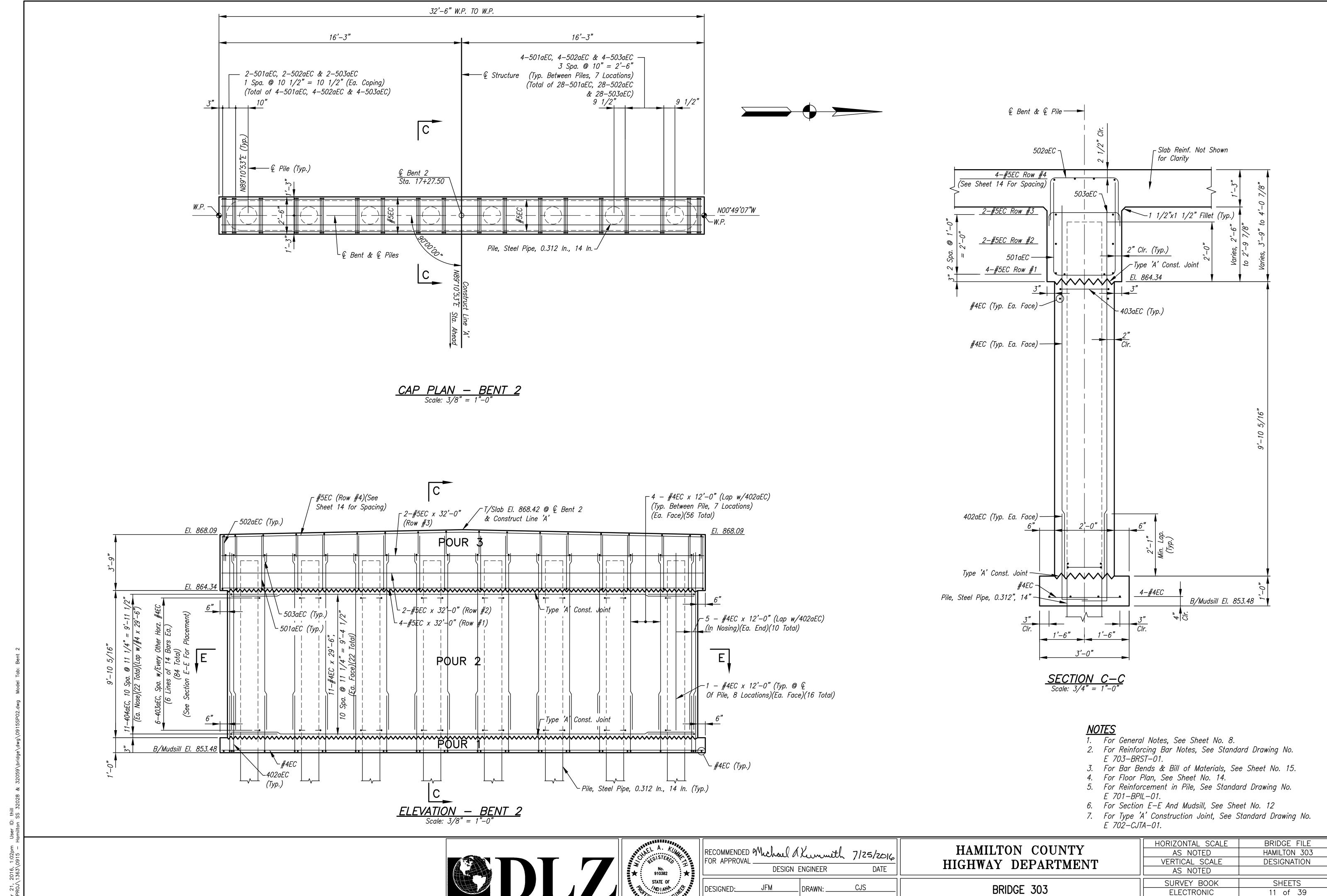


RECOMMENDED	Michael A	Kummith	7/25/20
		ENGINEER	DATE
DESIGNED:	JFM	DRAWN:	JLM

HAMILTON COUNTY HIGHWAY DEPARTMENT

L AS NOTED	HAMILION 303
VERTICAL SCALE	DESIGNATION
AS NOTED	
SURVEY BOOK	SHEETS
ELECTRONIC	10 of 39
CONTRACT	PROJECT
_	HCHD PB-13-0003
	VERTICAL SCALE AS NOTED SURVEY BOOK ELECTRONIC

BRIDGE 303 BENT 1 DETAILS



DOR

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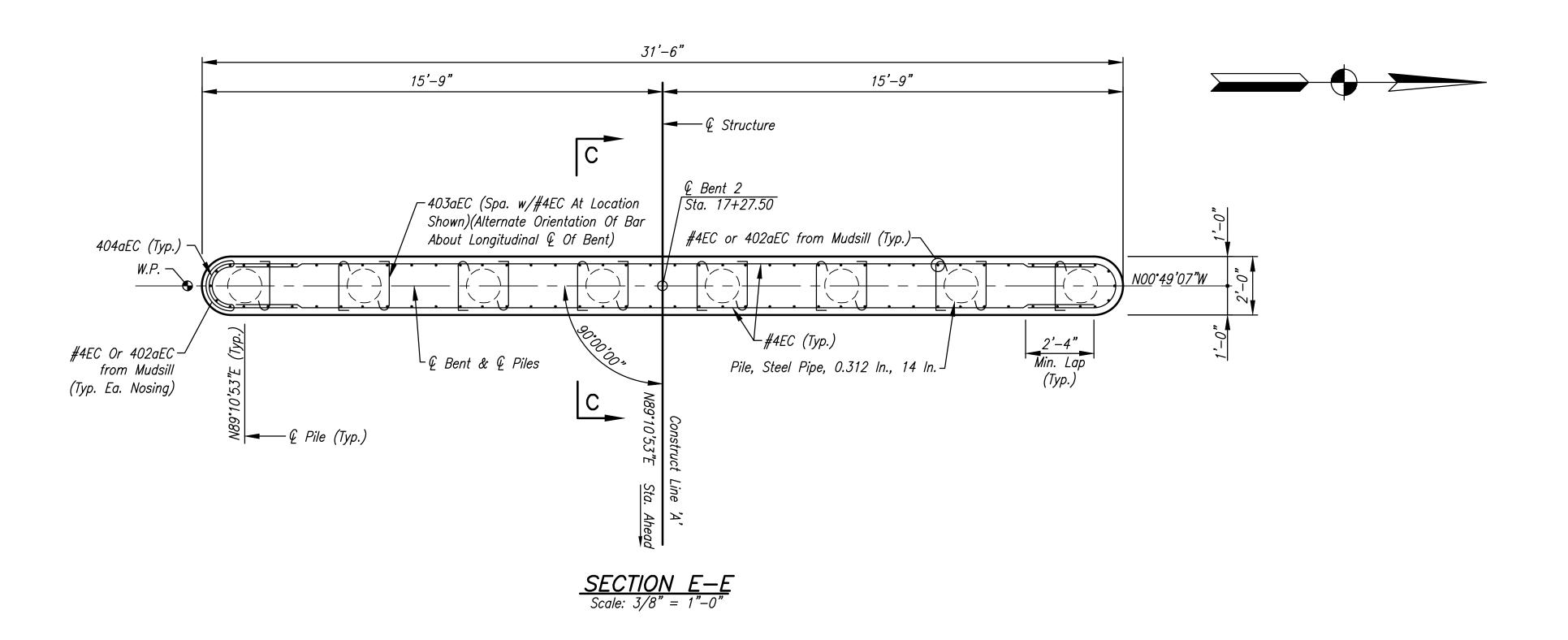
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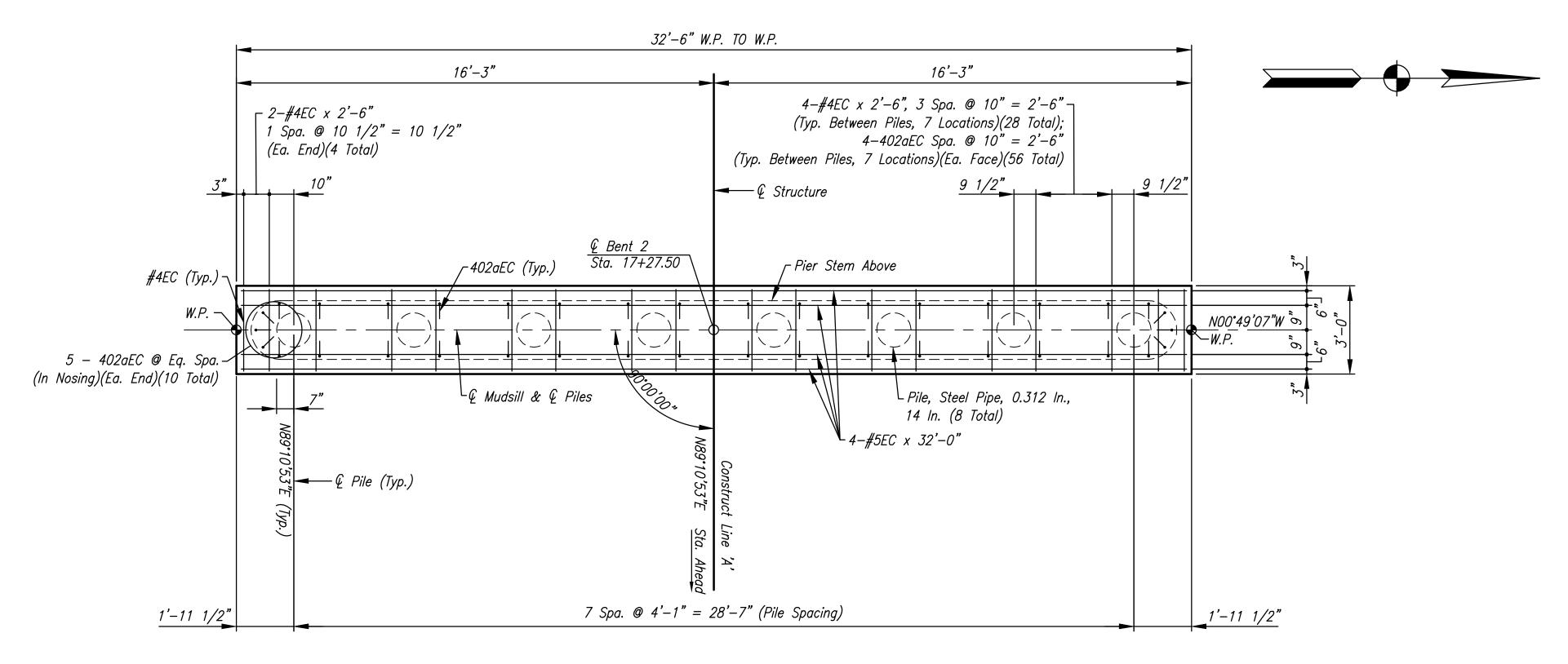
CONTRACT

BENT 2 DETAILS

PROJECT

HCHD PB-13-0003





NOTES:

- 1. For General Notes, See Sheet 8.
- 2. For Reinforcing Bar Notes, See Standard Drawing No. E 703—BRST—01.

- For Bar Bends & Bill of Materials, See Sheet 15.
 For Floor Plan, See Sheet 14.
 For Reinforcement in Pile See Standard Drawing No. E 701-BPIL-01.

MUDSILL PLAN — BENT 2

Scale: 3/8" = 1"-0"



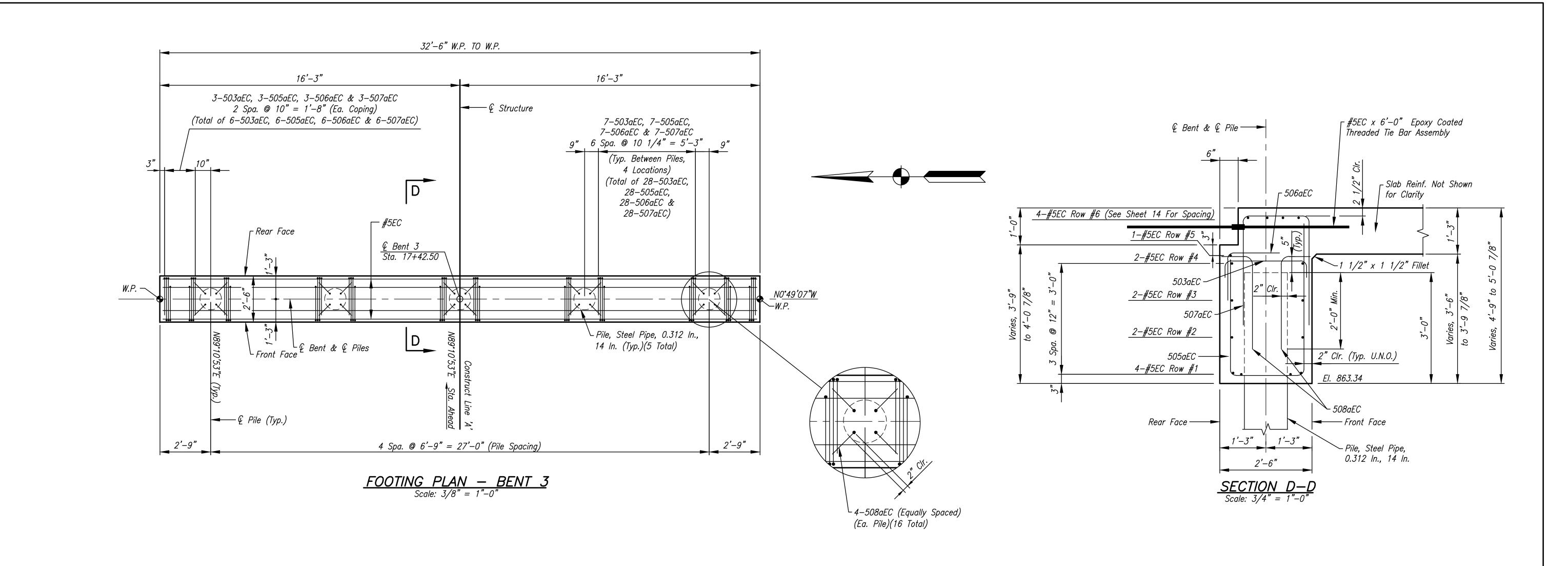


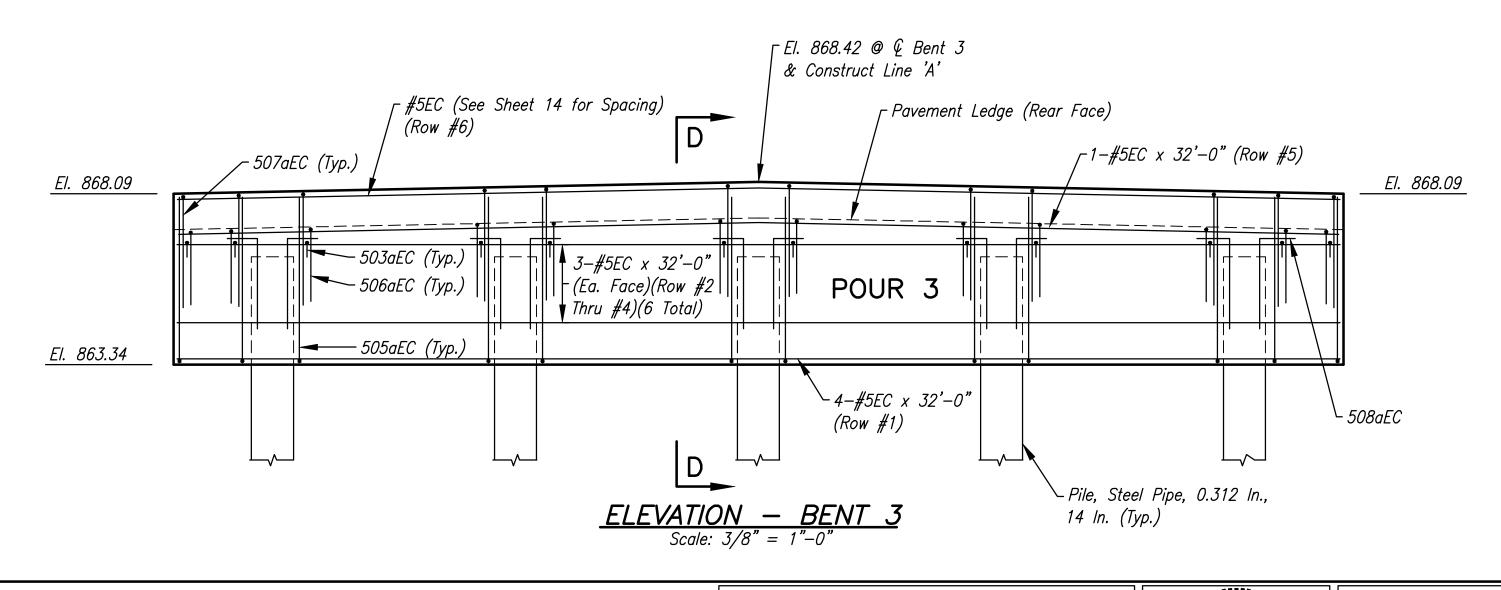
RECOMMENDED Whichael & Lummeth			7/25/2016
	DESIGN ENGINEER		DATE
DESIGNED:	JFM	DRAWN:	CJS
CHECKED.	DOR	CHECKED.	JFM

	N COUNTY DEPARTMENT
BRID	GE 303

BENT 2 DETAILS

HORIZONTAL SCALE	BRIDGE FILE
3/8" = 1'-0"	HAMILTON 303
VERTICAL SCALE	DESIGNATION
3/8" = 1'-0"	
SURVEY BOOK	SHEETS
ELECTRONIC	12 of 39
CONTRACT	PROJECT
_	HCHD PB-13-0003





NOTES:

- 1. For General Notes, See Sheet 8.
- 2. For Reinforcing Bar Notes, See Standard Drawing No. E 703—BRST—01.

HORIZONTAL SCALE AS NOTED

BRIDGE FILE HAMILTON 303

3. For Bar Bends & Bill of Materials, See Sheet 15. 4. For Floor Plan, See Sheet 14.

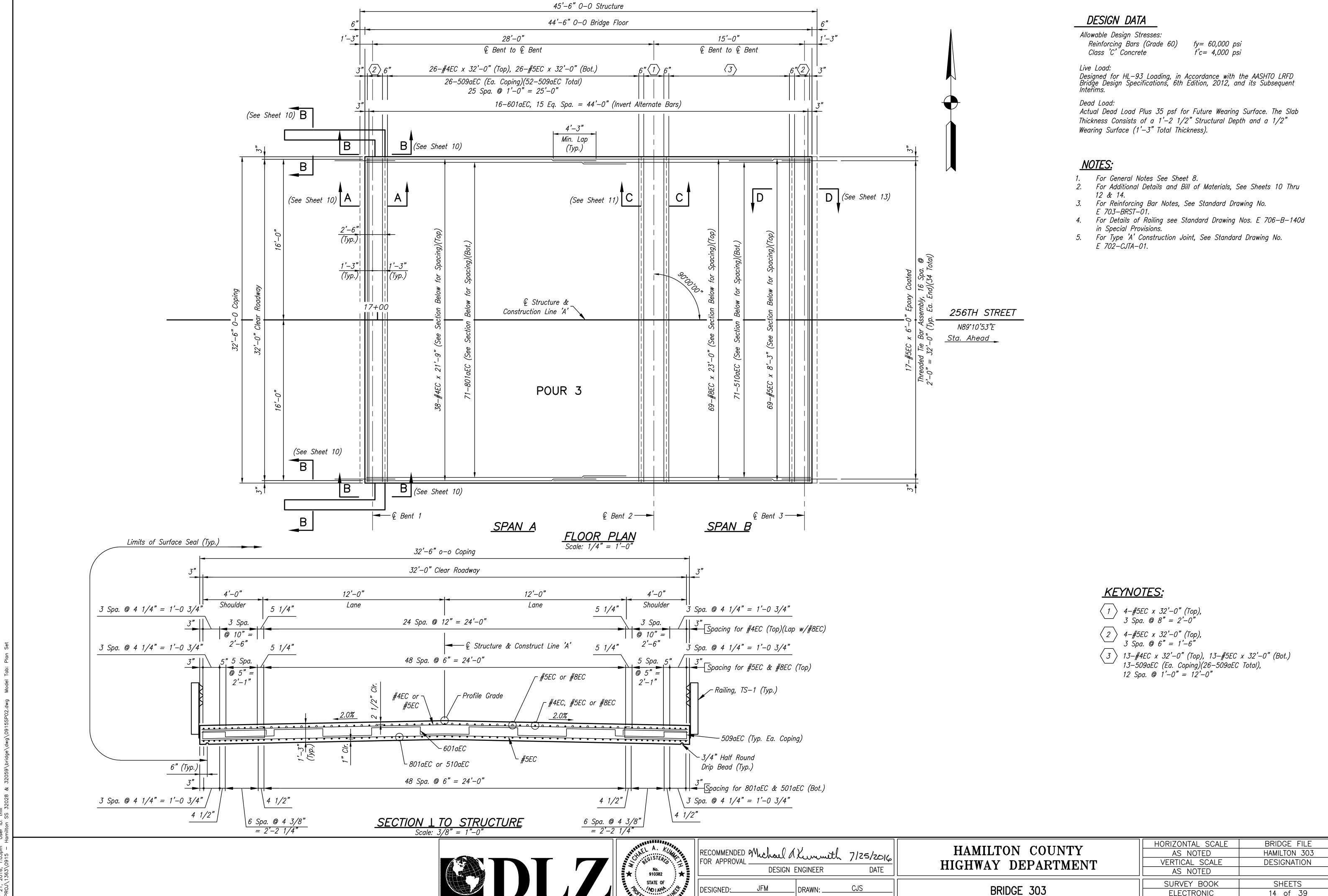




RECOMMENDED FOR APPROVAL	Michae	Michael & Kummith		
	DESIGN ENGINEER		DATE	
DESIGNED:	JFM		DRAWN:	Jlm
CHECKED:	DOR _		CHECKED:	JFM

HAMILT(NC	COUNTY
HIGHWAY	DE	PARTMENT

WAY DEPARTMENT	VERTICAL SCALE	DESIGNATION
WAI DEI ANTMENT	AS NOTED	
DDID 05 707	SURVEY BOOK	SHEETS
BRIDGE 303	ELECTRONIC	13 of 39
BENT 3 DETAILS	CONTRACT	PROJECT
DEITI O DEITIES	_	HCHD PB-13-0003



DESIGNED:

DLZ INDIANA, LLC

CHECKED:____

DOR

JFM

.|CHECKED:_

14 of 39

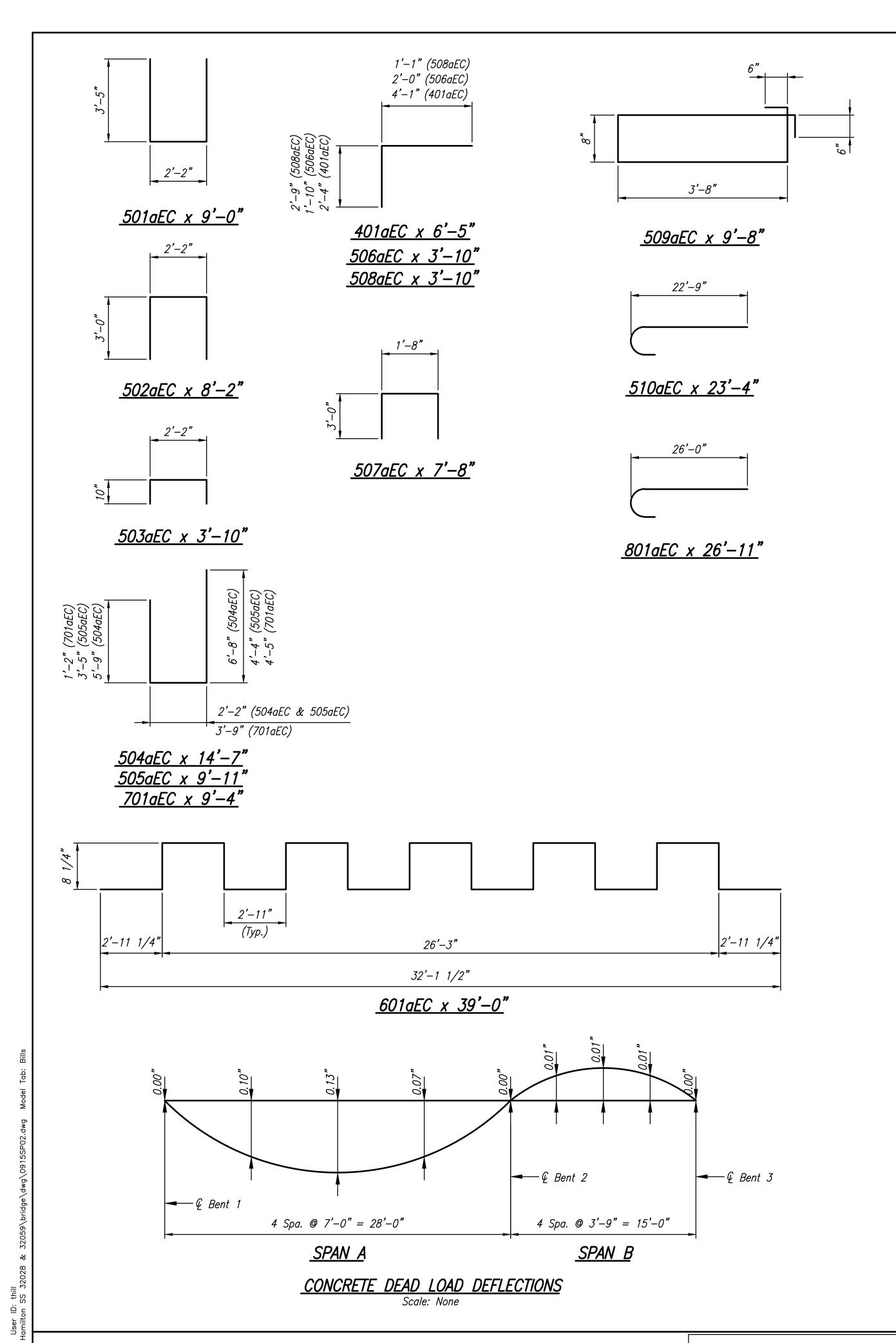
PROJECT

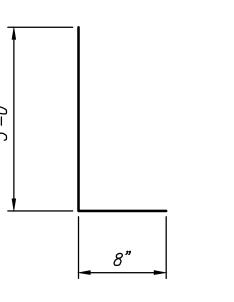
HCHD PB-13-0003

ELECTRONIC

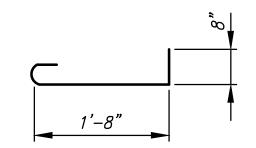
CONTRACT

FLOOR DETAILS

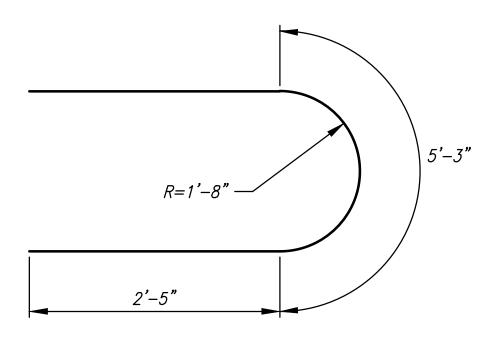




<u>402aEC x 3'-8"</u>



403aEC x 2'-10"



404aEC x 10'-1"

В	LL OF	MATERIALS	
SUPERSTRUCTURE			
EPOX	COAT	ED REINF. E	BARS
MARK/ SIZE	NO. REQ'D	LENGTH	WEIGHT (Lbs)
801aEC	71	26'- 11"	
#8EC	69	23'- 0"	
Total #8EC Bars			9340
601aEC	16	39'- 0"	
Total #6EC Bars	<u> </u>		937
509aEC	78	9'- 8"	
510aEC	71	23'- 4"	
#5EC	51	32'- 0"	
#5EC	69	8'- 3"	
Total #5EC Bars	1		4810
#4EC	39	32'- 0"	
#4EC	38	21'- 9"	
Total #450 Dam			1206
Total #4EC Bars Total Reinforcing	Bars Enoxy	/ Coated	1386 16473
		' CONCRETI	
Location	700 0	OONONETI	- CYS
Pour 3			110.5
Total Concrete, C, Superstructure		110.5	
	MISCEL	LANEOUS	
			77 <i>LFT</i>
Surface Seal (Est			1602 SFT
	Threaded Tie Bar Assembly 34 EACH		

		MATERIALS NT 2	
EDOYY		ED REINF. B	ADC
EPUXI	NO.	ED KEINF. B	WEIGHT
MARK / SIZE	REQ'D	LENGTH	(Lbs)
501aEC	32	9'- 0"	
502aEC	32	8'- 2"	
503aEC	32	3'- 10"	
#5EC	8	32'- 0"	
Total #5EC Bars			968
100 50		21 21	
402aEC	66	3'- 8"	
403aEC	84	2'- 10"	
404aEC	22	10'- 1"	
#4EC	4	32'- 0"	
#4EC	22	29'- 6"	
#4EC	84	12'- 0"	
#4EC	32	2'- 6"	
Total #5EC Bars			1715
Total Reinforcing E	Bars, Epoxy	Coated	2683
		CONCRETE	
Location			CYS
Pour 2			3.6
Total Concrete, A,	Substructu	ıre	3.6
CL	ASS 'B'	CONCRETE	
Location			CYS
Pour 1			22.7
Total Concrete, B,	Footing		22.7
	MISCEL	LANEOUS	
8 - Pile, Steel Pipe (Est. 49 LFT Each		14 In.	392 LFT

BILL OF MATERIALS				
BENT 1				
EPO	XY COAT	ED REINF. B	BARS	
MARK/ SIZ	NO. E REQ'D	LENGTH	WEIGHT (Lbs)	
	🕻 _		(=.0 5)	
701aEC	26	9'- 4"		
#7EC	26	9'- 6"		
Total #7EC Bai	<u> </u>		1001	
503aEC	34	3'- 10"		
504aEC	34	14'- 7"		
506aEC	34	3'- 10"		
507aEC	34	7'- 8"		
#5EC	15	32'- 0"		
Total #5EC Bai	<u> </u>		1562	
401aEC	16	6'- 5"		
#4EC	16	9'- 6"		
#4EC	52	6'- 9"		
Total #4EC Bai	<u> </u>		405	
Total Reinforcir	ng Bars, Epoxy	['] Coated	2968	
	MISCEL	LANEOUS		
5 - Pile, Steel F		14 In.	255 LFT	
(Est. 51 LFT E			222.257	
Surface Seal (E	:st.)		220 SFT	

BILL OF MATERIALS				
	BENT 3			
EPOXY	COAT	ED REINF. B	BARS	
MARK / SIZE	NO. REQ'D	LENGTH	WEIGHT (Lbs)	
503aEC	34	3'- 10"		
505aEC	34	9'- 11"		
506aEC	34	3'- 10"		
507aEC	34	7'- 8"		
508aEC	16	3'- 10"		
#5EC	11	32'- 0"		
Total #5EC Bars 1327				
Total Reinforcing Bars, Epoxy Coated 1327				
MISCELLANEOUS				
5 - Pile, Steel Pipe, 0.312 In., 14 In. 245 LFT				
(Est. 49 LFT Each)				



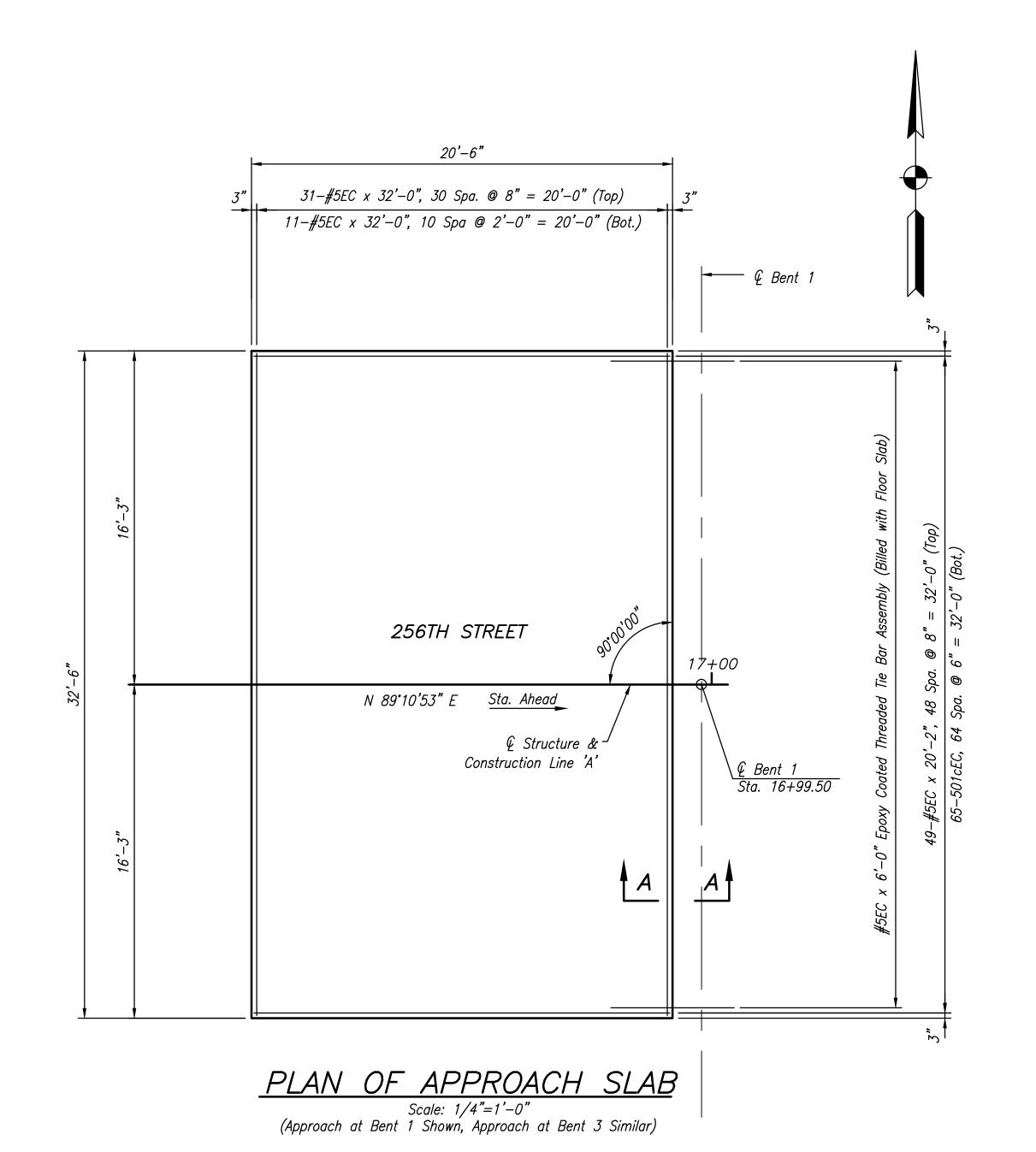


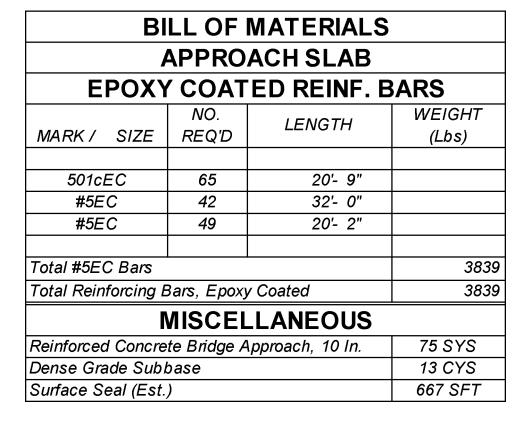
RECOMMENDED Michael & Kummeth			7/25/2016
	DESIGN ENGINEER		DATE
DESIGNED:	JFM	DRAWN:	JLM
CHECKED.	DOR	CHECKED.	JFM

HAMILTON	COUNTY
HIGHWAY DE	PARTMENT

	HORIZONTAL SCALE	BRIDGE FILE
	NOT TO SCALE	HAMILTON 303
ר	VERTICAL SCALE	DESIGNATION
	NOT TO SCALE	
	SURVEY BOOK	SHEETS
	ELECTRONIC	15 of 39
	CONTRACT	PROJECT
	_	HCHD PB-13-0003

BRIDGE 303 FLOOR DETAILS

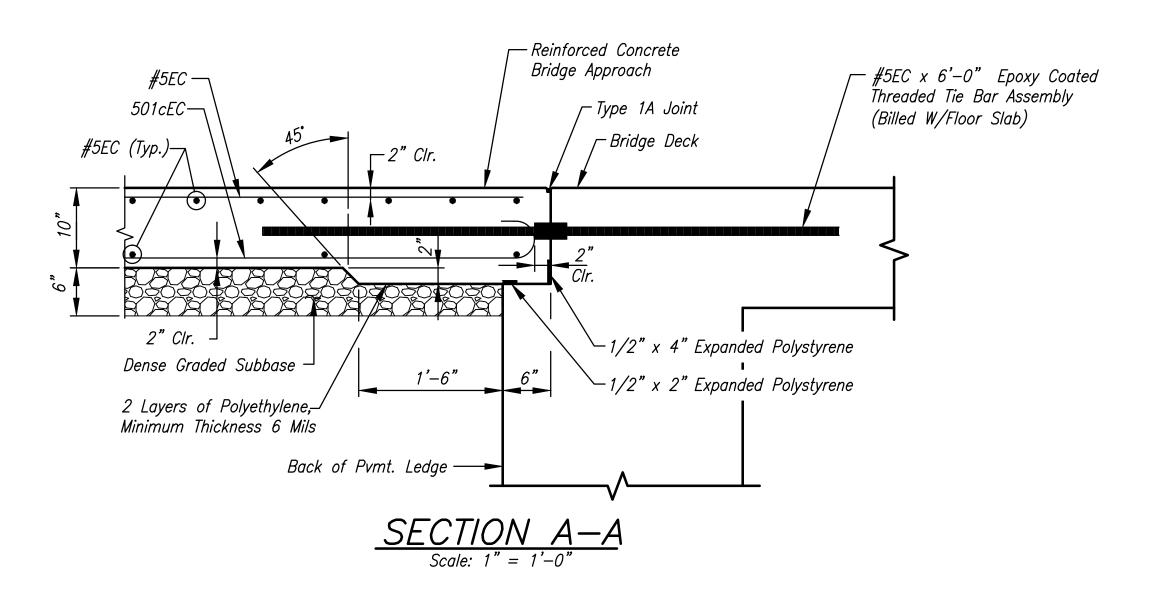




Note: Quantities Shown in Bill of Materials are for One Approach Slab Only.

20'-2"

<u>501cEC X 20'-9"</u>



NOTES:

- For General Notes, See Sheet 8.
 For Reinforcing Bar Notes, See Standard Drawing E 703-BRST-01.
 See Standard Drawing No. E 609-BRJT-01 for Details of Type 1A Joint.





RECOMMENDED FOR APPROVAL	Michael A	Kummith	7/25/2016
	DESIGN I	ENGINEER	DATE
DESIGNED:	JFM	DRAWN:	CJS
CHECKED:	DOR	CHECKED:	JFM

HAMILT(ON COUNTY
HIGHWAY	DEPARTMENT

BRIDGE 303

APPROACH SLAB

	HORIZONTAL SCALE	BRIDGE FILE
	AS NOTED	HAMILTON 303
	VERTICAL SCALE	DESIGNATION
	AS NOTED	
\neg	SURVEY BOOK	SHEETS
	ELECTRONIC	16 of 39
	CONTRACT	PROJECT
	_	HCHD PB-13-0003

											SU	JMM	ARY OF	BRIDGI	E QU A	NTITI	ES											
ITEM	CLASS C SUPERSTR	CLASS A SUBSTR	CONC CLAS ABOVE FTG.			RAIL. STE TS-	ING, EL, -1	REINF. BARS	EPOXY COATED REINF. BARS	FIELD DRILLED HOLE IN CONCRETE	OVERLAY - DAM	STEEL PIPE 0.312 IN., 14 IN.	E, STEEL PIPE, EPOXY COATED, 0.312 IN., 14 IN	STEEL H	PILES TEST PILE, INDICATOR, PRODUCTION	STEEL H REINF. CONC. ENCASEDYX	TEST PILE, INDICATOR, RESTRIKE	CORED HOLES IN ROCK	POLYMERIC OVERLAY SYSTEM	BRIDGE DECK PATCHING, PARTIAL DEPTH	BRIDGE DECK OVERLAY, ADDITIONAL	CONC. ST BOX BEAMS TYPE	R. MEMBERS I BEAM TYPE	BARRIER DELIN- EATORS	SURFACE SEAL**	DENSE GRADED SUBBASE	REINFORCED CONCRETE BRIDGE APPROACH 10 IN.	THREADED TIE BAR ASSEMBLY, EPOXY COATED
	CYS.	CYS.	CYS.	CYS.		CYS.	LFT.	LBS.	LBS.	EACH	SFT	NO. LFT.	NO. LFT.	NO. LFT.	NO. LFT.	NO. LFT.	EACH	NO. LFT.	SYS	SFT	CYS	LFT.	LFT.	EACH	SFT.	CYS	SYS	EACH
BENT 1									2,968			5 <i>255</i>													220			
BENT 2		22.7		3.6					2,683			8 392																
BENT 3									1,327			5 245																
SUPERSTRUCTURE	110.5						77		16,473																1.000			-
EAST APPROACH SLAB									3,839																1,602			34
WEST APPROACH SLAB									3,839																667	13	<i>75</i>	
TOTALS	110.5	22.7		3.6			77		31,129			18 892													667 3,156	13 26	75 150	34

** ESTIMATED QUANTITY





RECOMMENDED FOR APPROVAL		Lunwith ENGINEER	7/25/2016 DATE
DESIGNED:	JFM	DRAWN:	CJS
OUTOKED	DOB		IFM

HAMILT(ON COUNTY	
HIGHWAY	DEPARTMENT	

HORIZONTAL SCALE	BRIDGE FILE
N/A	HAMILTON 303
VERTICAL SCALE	DESIGNATION
N/A	
SURVEY BOOK	SHEETS
ELECTRONIC	17 of 39
CONTRACT	PROJECT
_	HCHD PB-13-0003

BRIDGE 303 SUMMARY OF BRIDGE QUANTITIES

				Sl	JMI	VAR	Y	DF	QU	ANT.	ITIE	S	ANL) Al	PPR	OA	CH	TA	BL	E							
LOCATION (STATION)	DESCRIPTION (APPROACH TYPE OR CLASS)	WIDTH	LENGTH	ICE BEYOND /W LINE	RADII 'R'	GRADE (LE 8.33% SHOV		EXCA	VATION	HMA FOR PPROACHES, TYPE B (M)	НМА	FOR ROA (LB/SYS)		FOR WIDENING TYPE B	E FOR CEMENT	BITUM	INOUS MA FOR:	TERIAL	CTED AGGREGATE, NO. 53 (J)	HMA FO	r should (LB/sys)	DERS (J1))	CATE, NO. 53 (J2)	NG ASPHALT 1 1/2"	6" COMPACTED GGREGATE NO. 53	SUBGRADE TREATMENT II	REMARKS
45 cm (5 mm s, 7	(APPROACH TYPE OR CLASS)			ISTAN R/						A L	SURFACI	INTER	BASE	MA F	SUBBASE	SEAL COAT	PRIME COAT	TACK	MPAC N	SURFACE	INTER	BASE	GGRE	MILLING	6° GGRE	S ₹	
		,M,	'L'		'R'	1	2	(YS	550/SYD	165	330	660		l IS	COAT	COAT	COAT	8	165	330	660	4				
•		FEET	FEET	FEET	FEET	%	%	CUT	FILL	TONS	TON	TON	TON	TON	SYS	TON	TON	SYS	TON	TON	TON	TON	TON	SYS	TON	SYS	
LINE 'A'												ļ									ļ			010		0050	
13+80-21+00	Mainline										120	205	416	70		 		3232	335	20	40	79	12	212		2050	
15+88.17	Mod. CL II Priv. Drive	11.5	23.9		10/10					10														<u> </u>	_	34	
20+51.7	Mod. CL II Priv. Drive	12.2	19.7		10/10					10																34	
TOTAL THIS SHEET										20	120	205	416	70				3232	335	20	40	79	12	212		2118	

										STI	RUC	TI	<i>JRE</i>	<u> </u>	DA	TA	1						
	LOCATION	N	Τ		T	DESCRIPTION				FLOW L	INE	T	·	THICK	(NESS					Ī			
STRUCTURE		LEFT RIGHT CROSS		SIZE	TYPE	MANHOLE, INLET, CATCH BASIN, OR SPECIALTY	НЕМЕТН	SKEW	COVER	UP STREAM	DOWN STREAM	BACKFILL	STRUCTURE BACKFILL, TYPE 1	STEEL*	ALUM.*	VELOCITY	REVETMENT RIPRAP	CONCRETE CLASS "A"	ONE END SECTION	SI	RATED OX END ECTION	CONNECT TO STR.	REMARKS
							LFT	7	FT	ELEV.	ELEV.		CYS	IN	IN	FT/se	t TON	CYS	EA.	TYPE	SLOPE		
<u> </u>	LINE 'A'		†		1 1																		
1	15+88.17	$ _{X} $	 	12"	3		27		1	864.17	864.09	1	4						2				
 '-	70700.77	· · ·	1			· · · · · · · · · · · · · · · · · · ·		1					1										
TOTAL	S		_i																				

	LOCATION			W-BEAM GU	ARDRAIL LENGTH				CL	JRVED W-BEAM (Guardrail Systi	EM
FROM STATION	TO STATION	LEFT	RIGHT	STANDARD POST AT 6.25 FEET SPA.	TIMBER GUARDRAIL	TGS-I GUARDRAIL	TYPE OS END TERMINAL	CURVED TERMINAL END	TERMIN	AL END	CONNI SYS	
				FEET	FEET	EACH	EACH	EACH	TYPE	EACH	TYPE	EACH
NE 'A'												
15+83	16+33	Х					1					
16+33	16+83	Х		50								
16+83	17+01.75	X				1						
16+14.25	16+83		х	68.75					3	1		
16+83	17+01.75		х			1			·			
17+40.25	17+59	х				1						
17+59	19+21.5	х		162.5								
19+21.5	19+71.5	Х					1					
17+40.25	17+59		Х			1						
17+59	18+02.75		Х	43.75								
18+02.75	18+52.75		Х				1					
TOTALS				325		4	3			1 1		

ITEM	VOLU (CY.
FILL (+25%)	332
BORROW (FOR BENT 2)	35
COMMON EXCAVATION - LINE 'A'	412
CHANNEL EXCAVATION-LINE 'T' (SEE NOTE 1)	798
NET BORROW	0
WASTE	45
BENCHING (NO DIRECT PAYMENT)	0
COMMON EXCAVATION FOR UNDERCUTTING (UNDISTRIBUTED)	100
EXCAVATION FOUNDATION UNCLASSIFIED	70
STRUCTURAL BACKFILL TYPE 4	30
EXCAVATION WATERWAY (BRIDGE 303)	340
EXCAVATION WET	60

N	<u> </u>						
1.	Excavation	From	Taylor	Ditch	Shall	Ве	
	Stockpiled	As Pei	r Špeci	al Pro	vision	No.	58

	PIPE M	ATERIAL	TABL	E
			STRUCTU	RE NUMBER
l _			1	
	PIPE TYPE/ SHAPE		3/CLR	
	SMOOTH PIPE SIZE (I		12	
	CORRUGATED PIPE SIZE	(in.)		
	RCP/ RCHEP (S) CLASS			
	RCP/ RCHEP (S) PO.01 R	ATING	1000	
	NON-REINFORCED CONCRETE I			
	CORRUGATED PE PIPE, TYPE S	(S) *		
	RIBBED PE PIPE (S) *		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
	SMOOTH WALL PE PIPE (S)*/	MAXIMUM DR		
1 [PROFILE WALL PVC PIPE (S)			
	SMOOTH WALL PVC PIPE (S)	*		
	VITRIFIED CLAY PIPE, EXTRA S	TRENGTH (S)		
	ZINC COATED (LS) & (R)	CORR. PROFILE (in.)	· · · · · · · · · · · · · · · · · · ·	
	ZINC COATED (ES) & (N)	THICKNESS (in.)		
	ZINC COATED W/ PI (LS) & (R)	CORR. PROFILE (in.)		
18	ZINC COATED NY 11 (ES) & (N)	IMIUKNESS (III.)		
PIPE-ARCH	ZINC COATED W/ BPI (C)	CORR. PROFILE (in.)		
18	ZINO CONIED WY DIT (O)	THICKNESS (in.)		
	ALUM. COATED TYPE 2	CORR. PROFILE (in.)		
PIPE	(LS) & (R)	THICKNESS (in.)		
1	ALUM. COATED TYPE 2 W/	CORR. PROFILE (in.)		
STEEL	BPI (C)	THICKNESS (in.)	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
	POLYMER PRECOATED	CORR. PROFILE (in.)		
RRUGATED	GALVANIZED TYPE 1A(S) (LS)	THICKNESS (in.)		
[টু	POLYMER PRECOATED	CORR. PROFILE (in.)		
% L	GALVANIZED (R)	THICKNESS (in.)		
18	FIBER BONDED BITUMINOUS	CORR. PROFILE (in.)		
	COATED (C)	THICKNESS (in.)		
	FIBER BONDED BITUMINOUS	CORR. PROFILE (in.)		
	COATED W/ BPI (C)	THICKNESS (in.)		
T	CORRUGATED ALUM. ALLOY	CORR. PROFILE (in.)		
1 [PIPE (LS)	THICKNESS (in.)		
	CORRUGATED ALUM. ALLOY	CORR. PROFILE (in.)		
	PIPE (R)	THICKNESS (in.)		<u></u>

	LOCATION			OFFSET (FT)	TYPE
LINE	STATION	TEFT	RIGHT		
LINE "A"	15+72.8	Х		16'	Single

	R/W MARKERS										
	LOCATIÓN			OFFSET (FT)	EACH						
LINE	STATION	1.577	RIGHT								
LINE "A"	13+70	•		<i>30'</i>	1						
	13+70		•	30'	1						
	15+70		•	30'	1						
	15+70		•	38'	1						
	16+10		•	38'	1						
	16+10		•	30'	1						
	16+25		•	30'	1						
	17+00		•	45'	1						
	17+40		•	30'	1						
	21+10		•	30'	1						
	21+10	•		30'	1						
				TOTAL	11						





-	RECOMMENDED FOR APPROVAL	is Da	Q~	07-26-16	
		DESIGN I	ENGINEER	DATE	
	DESIGNED:	CAP	DRAWN:	CJS	
	CHECKED:	FS	CHECKED:_	FS	

HAMILTON COUNTY HIGHWAY DEPARTMENT

BRIDGE 303

MISCELLANEOUS TABLES

HORIZONTAL SCALE

N/A

HAMILTON 303

VERTICAL SCALE

DESIGNATION

N/A

SURVEY BOOK

ELECTRONIC

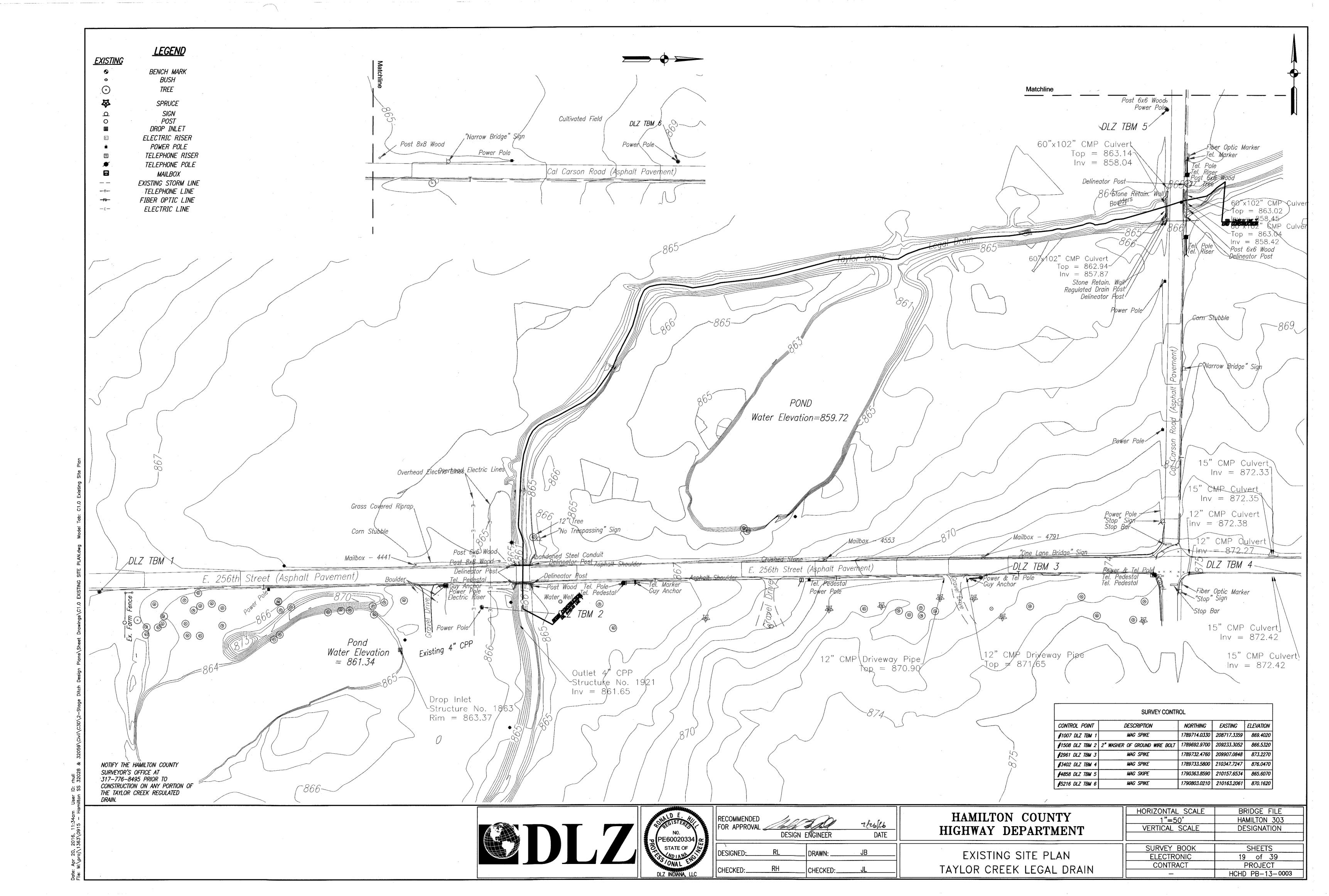
18 of 39

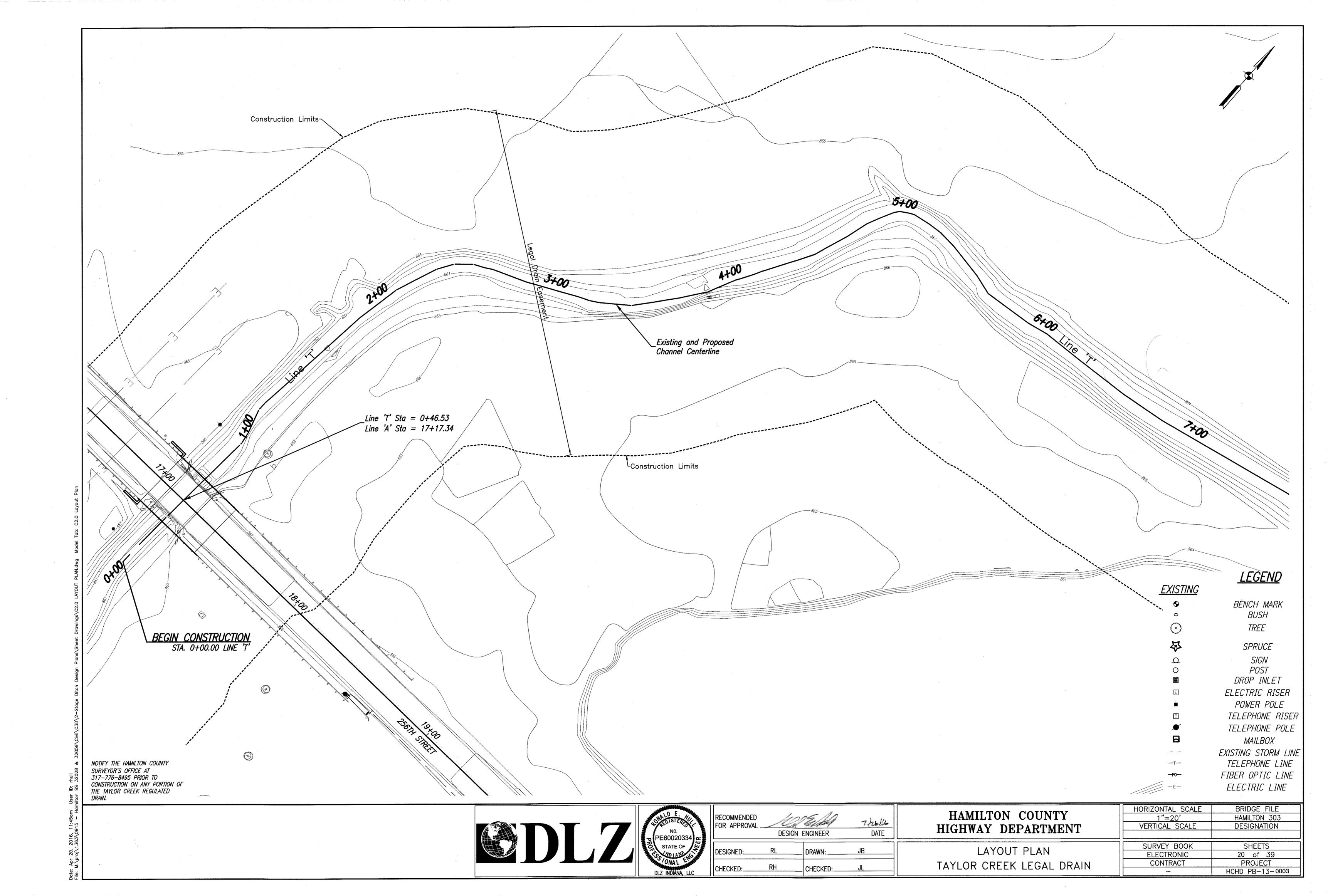
CONTRACT

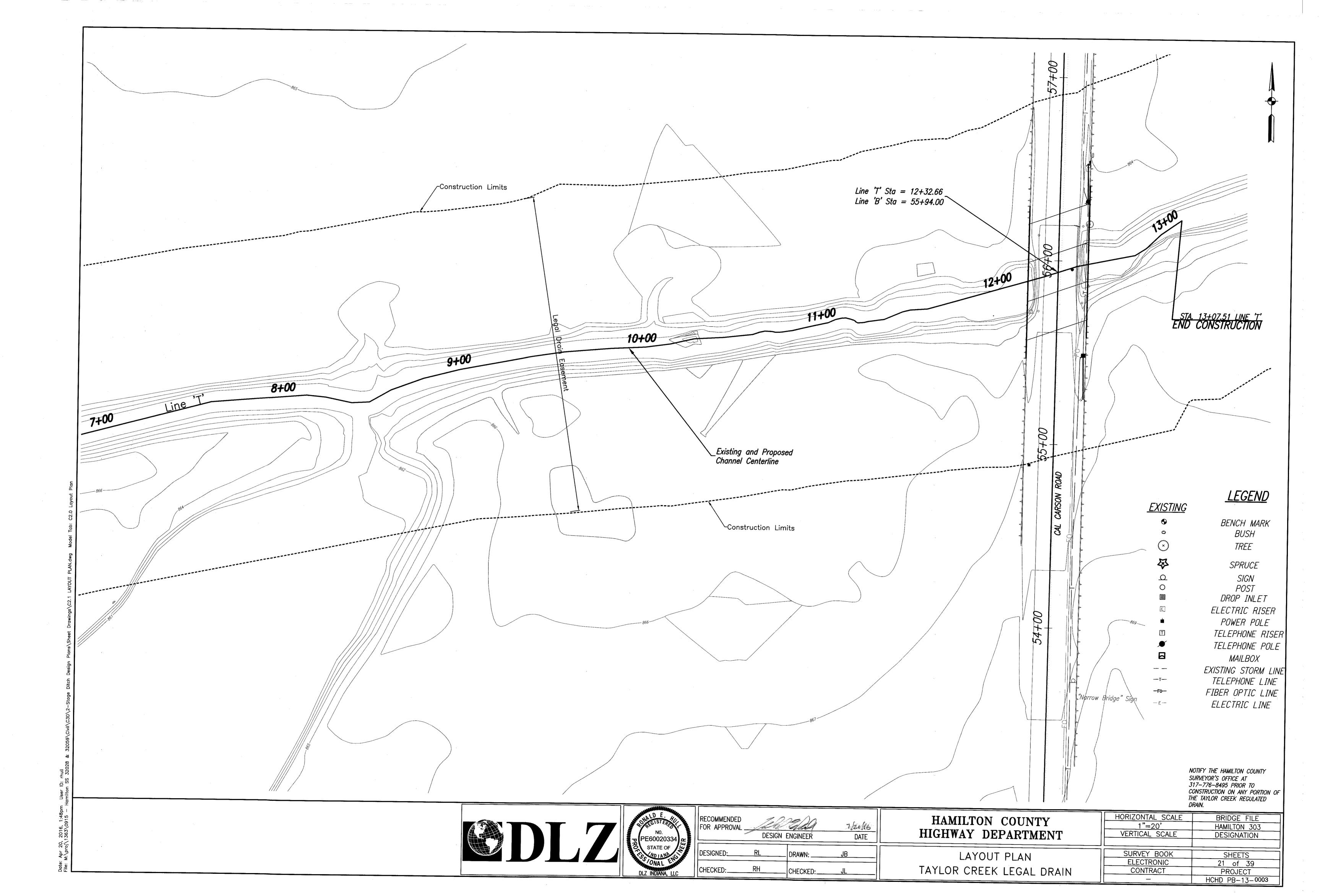
PROJECT

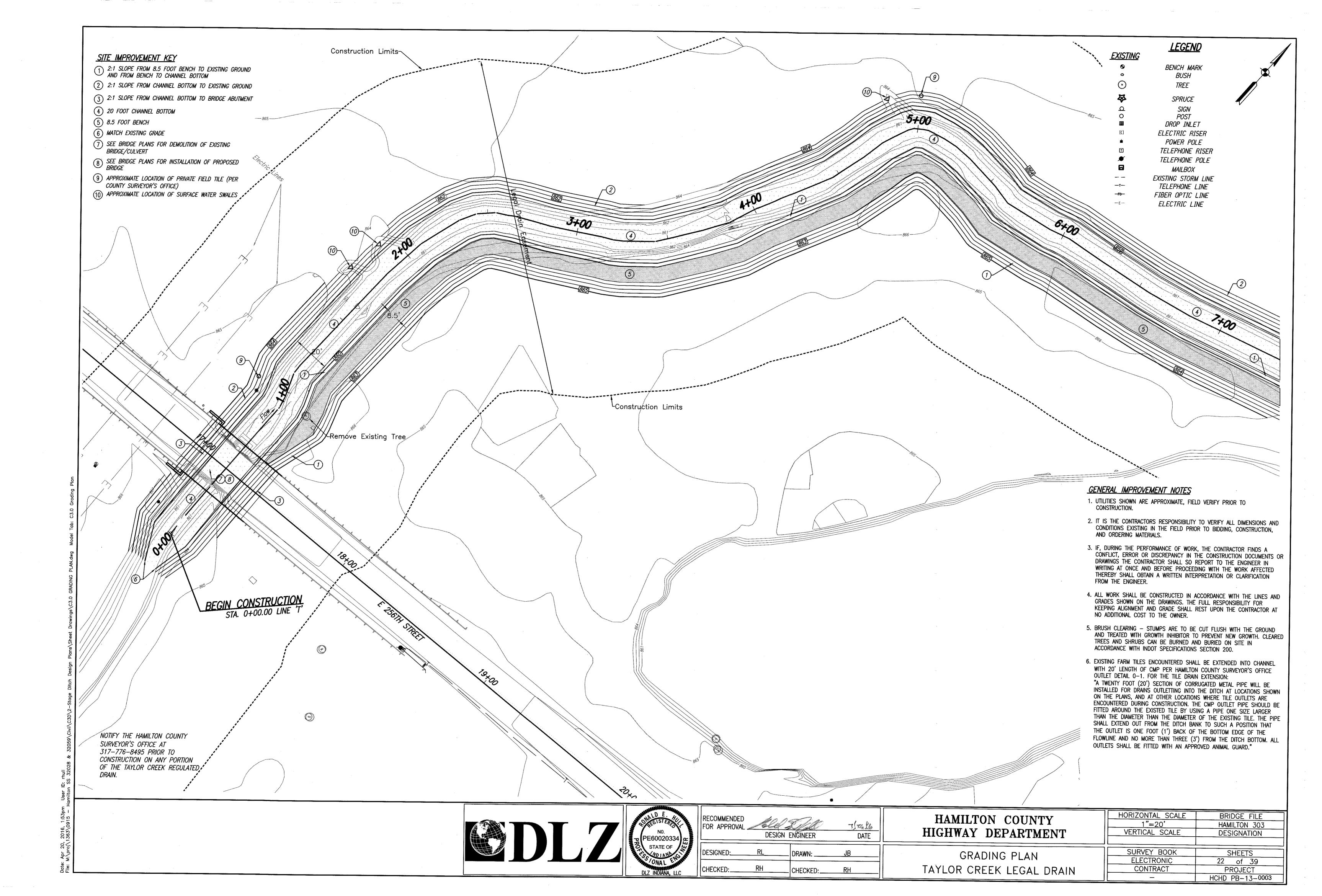
HCHD PB-13-0003

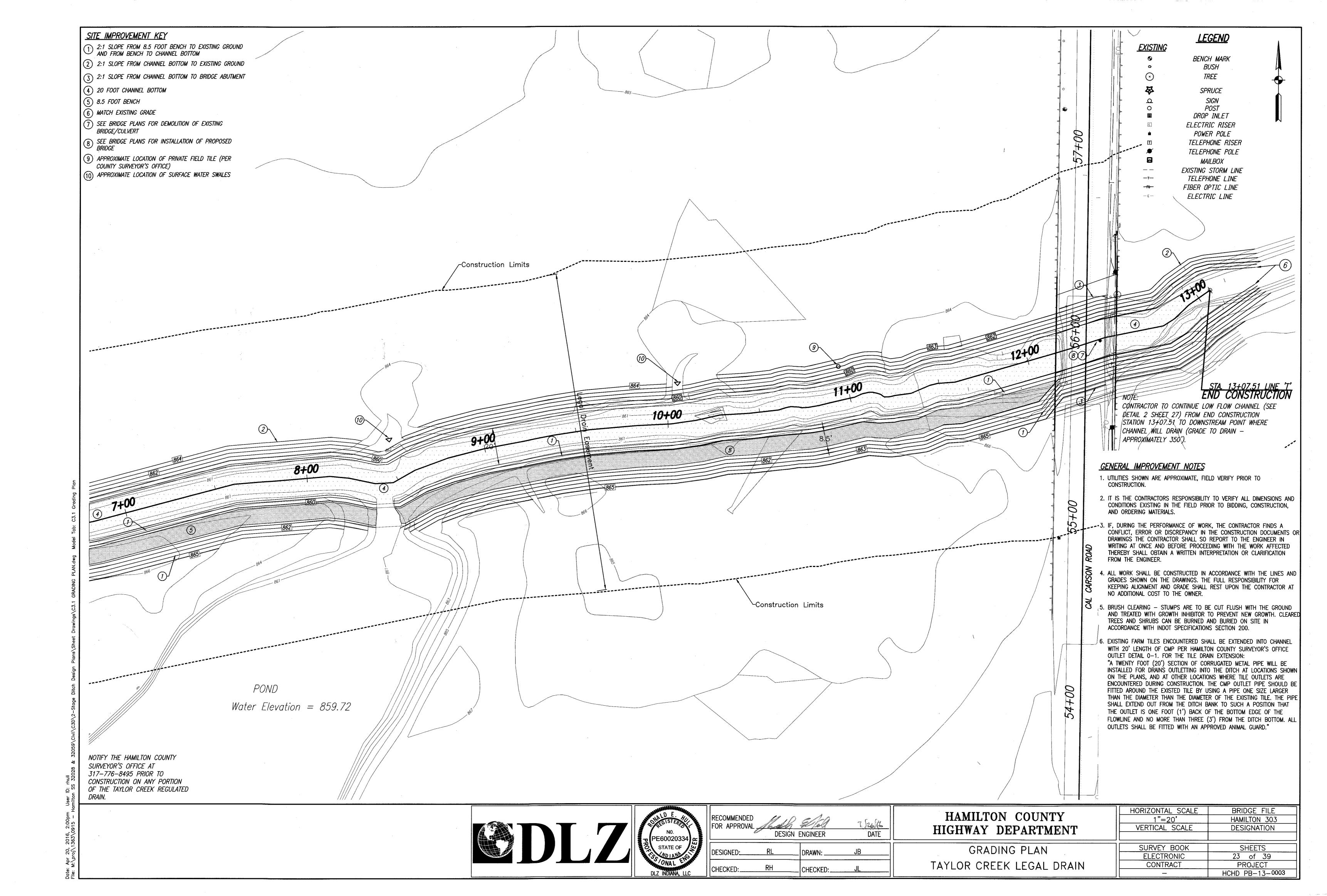
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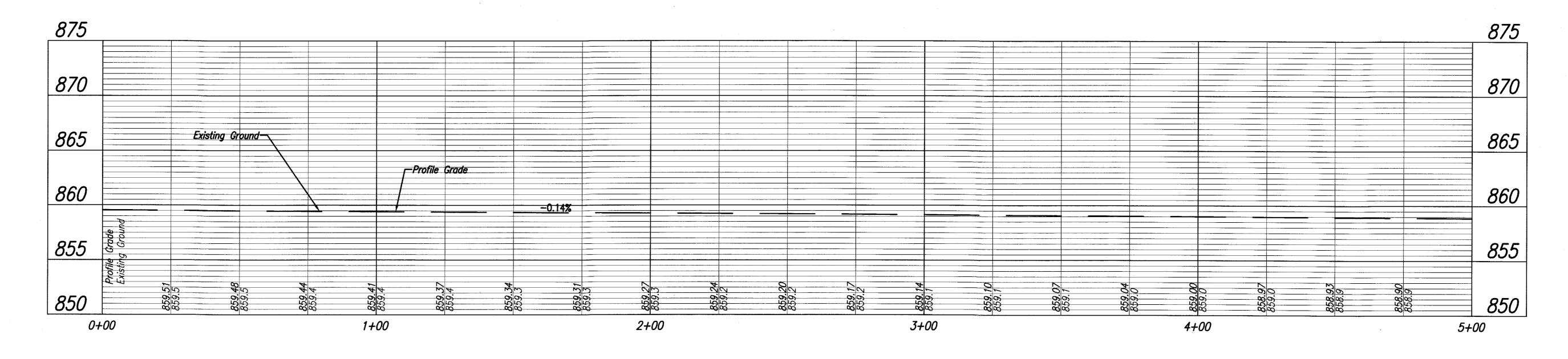


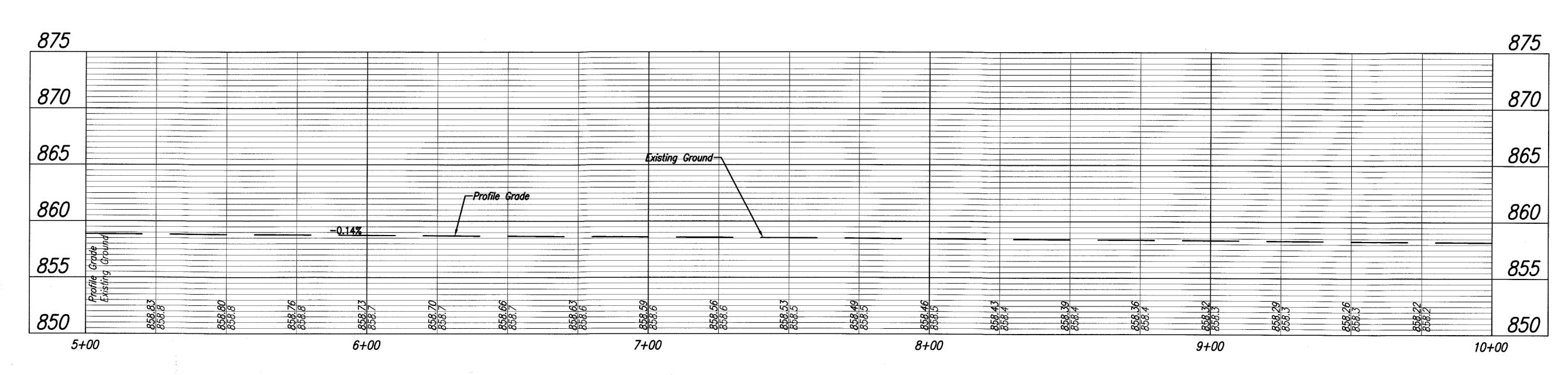


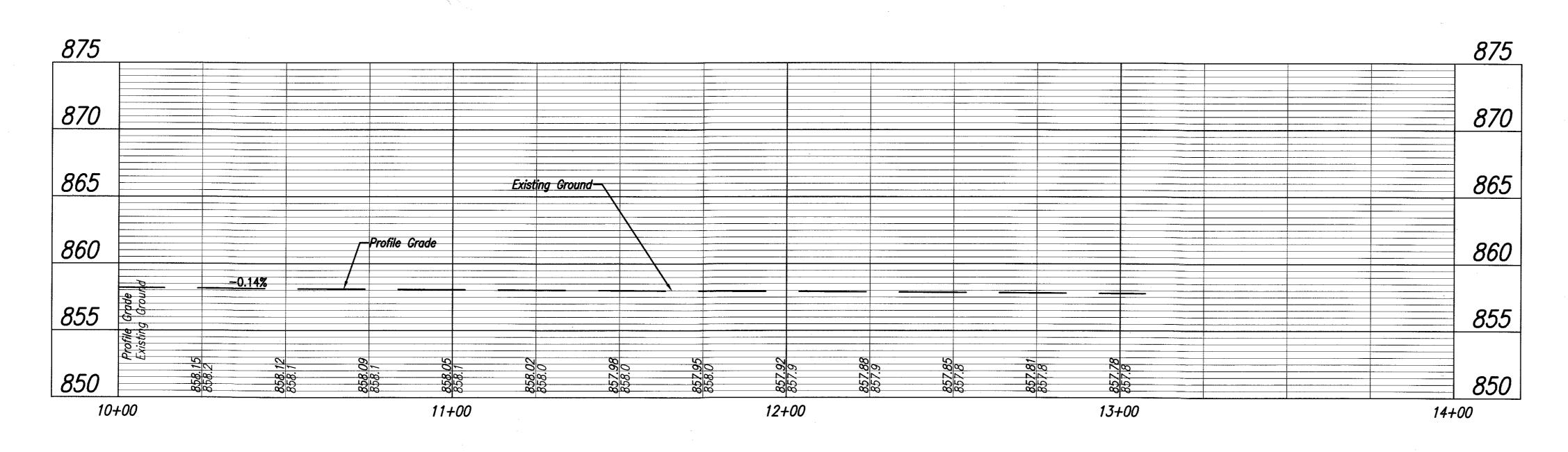










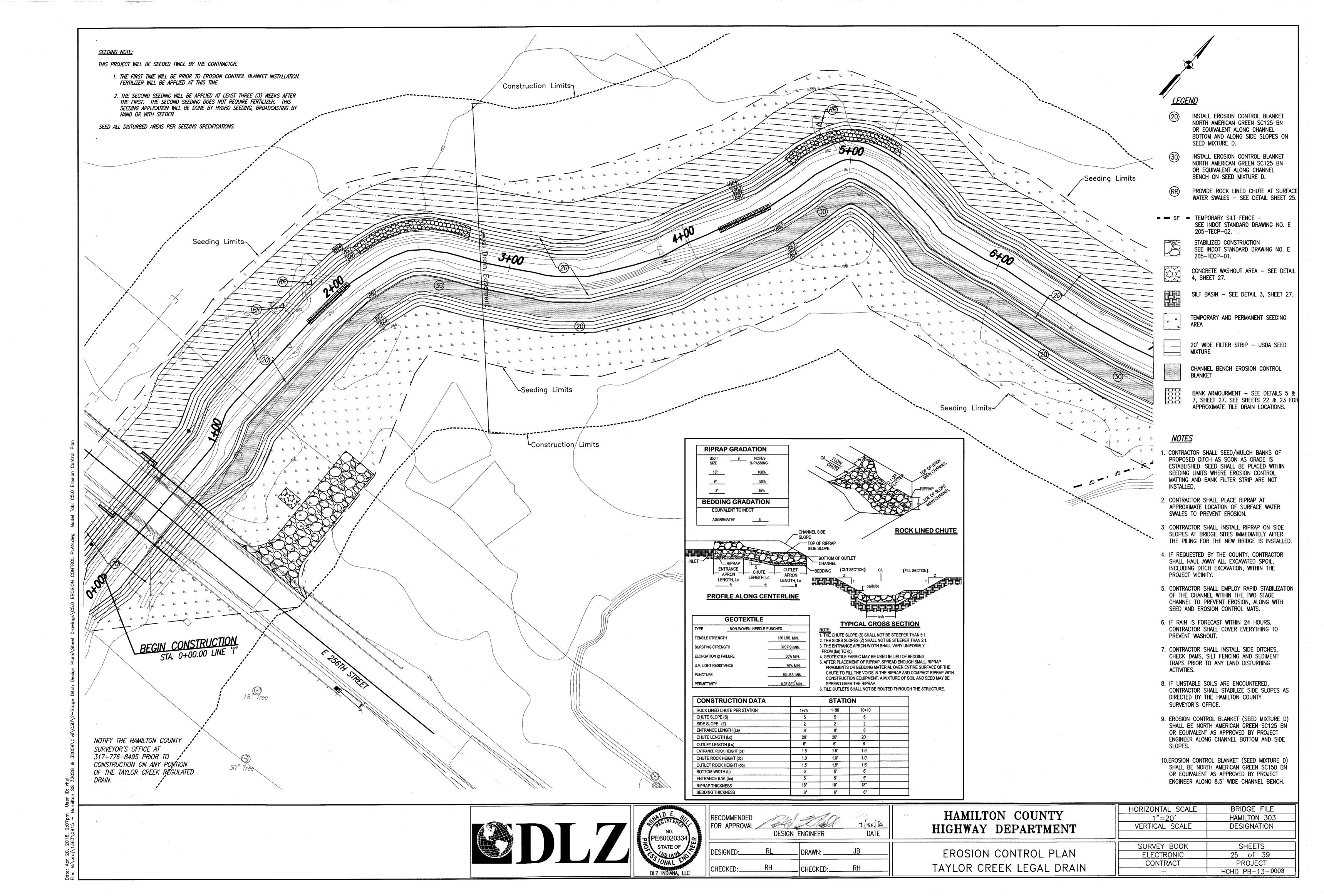


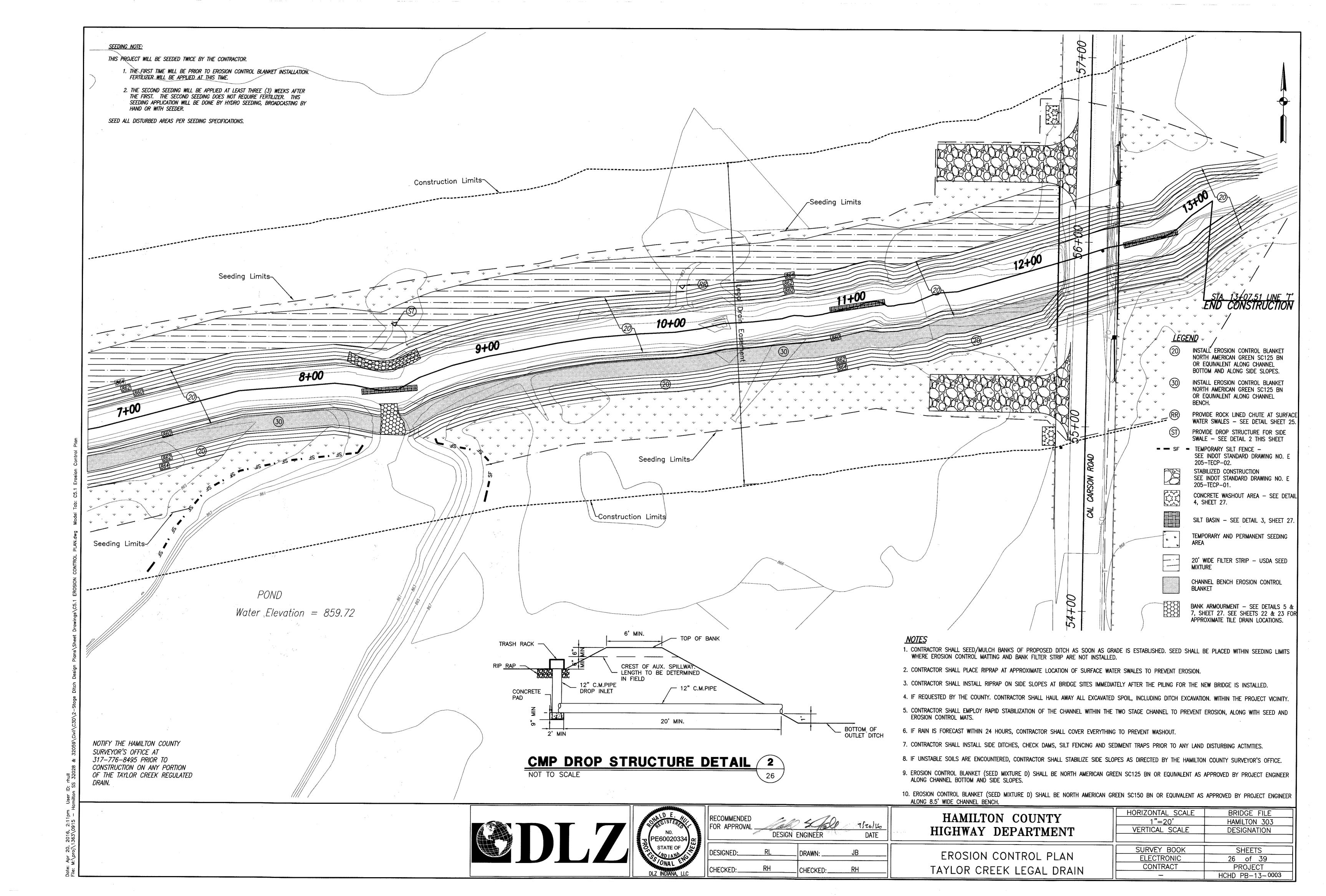


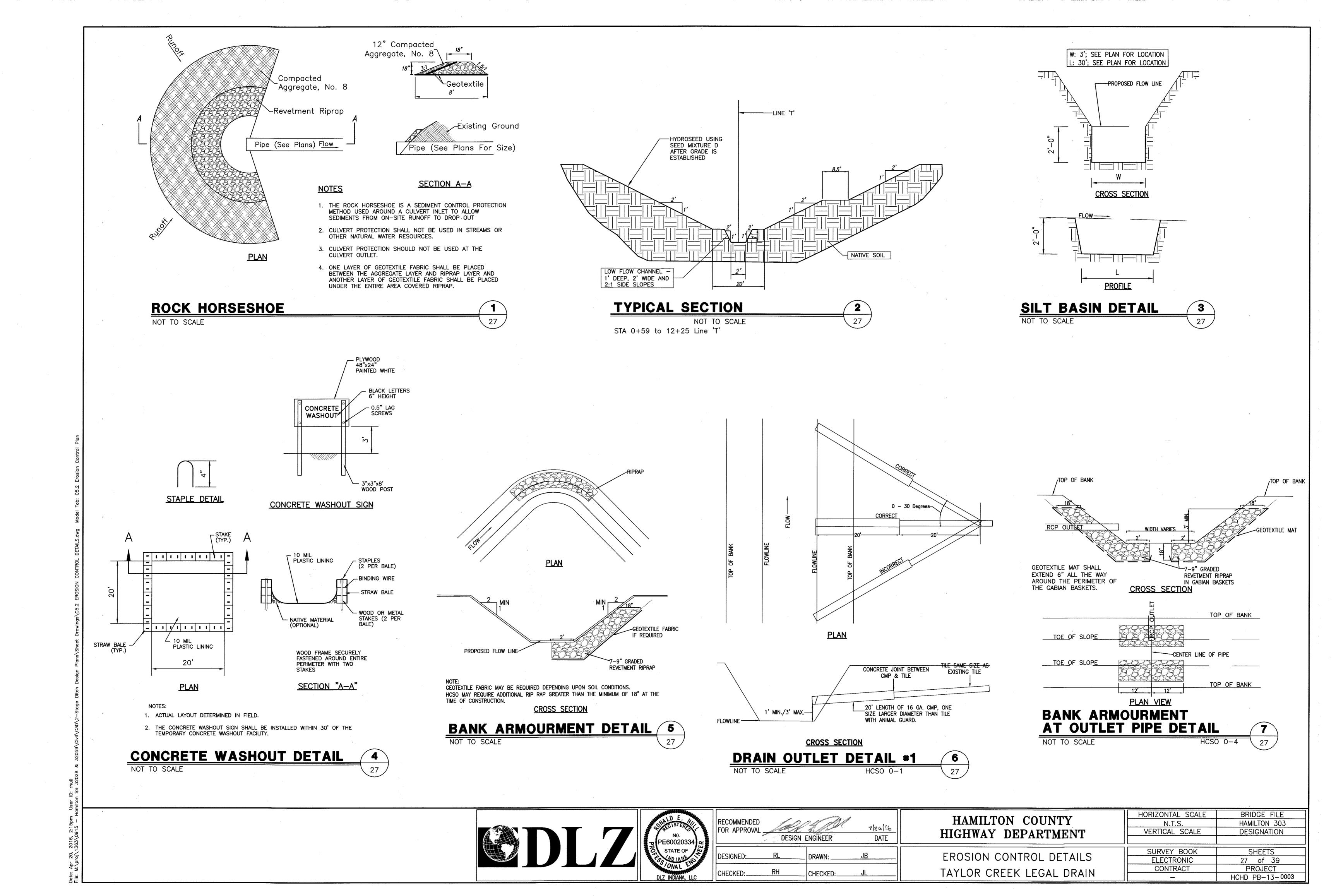


INTERNATION	RECOMMENDED FOR APPROVAL	DESIGN	ENGINEER	7/2+/60 DATE	
NAME OF THE PERSON	DESIGNED:	RL	DRAWN:	JB	
	CHECKED:	RH	CHECKED:	JL	

HAMILTON COUNTY HIGHWAY DEPARTMENT	HORIZONTAL SCALE 1"=20' VERTICAL SCALE 1"=20'	BRIDGE FILE HAMILTON 303 DESIGNATION
PROFILE VIEW — LINE 'T' TAYLOR CREEK LEGAL DRAIN	SURVEY BOOK ELECTRONIC CONTRACT -	SHEETS 24 of 39 PROJECT HCHD PB-13-0003







Rule 5 Checklist Information

Assessment of Construction Plan Elements

- INDEX SHOWING LOCATIONS OF REQUIRED PLAN ELEMENTS: SEE EROSION CONTROL PLAN. SHEETS 25 AND 26.
- A2. 11x17 INCH PLAT SHOWING BUILDING LOT NUMBERS/BOUNDARIES AND ROAD LAYOUT/NAMES: PROVIDED — SEE ATTACHED.
- NARRATIVE DESCRIBING THE NATURE AND PURPOSE OF THE PROJECT: THE WORK SHALL INCLUDE DEMOLITION, EARTHWORK, AND NEW CONSTRUCTION AS REQUIRED TO COMPLETE THE REPLACEMENT OF TWO SMALL BRIDGE STRUCTURES, ROADWAY APPROACH CONSTRUCTION, GUARDRAIL INSTALLATION, AND CONSTRUCTION OF ROADSIDE DITCHES AND TWO STONE DITCHES.
- A4. VICINITY MAP SHOWING PROJECT LOCATION: SEE COVER SHEET.
- A5. LEGAL DESCRIPTION OF THE PROJECT SITE:

THE PROJECT IS LOCATED IN THE NORTHEAST QUARTER, SECTION 20, 21, AND 29, TOWNSHIP 20N, RANGE 4E, JACKSON TOWNSHIP, HAMILTON COUNTY, INDIANA. LATITUDE: N 40° 09' 41"; LONGITUDE: W 86° 05' 30" AND LATITUDE: N 40° 09' 46"; LONGITUDE: W 86° 05' 19"

- A6. LOCATION OF ALL LOTS AND PROPOSED SITE IMPROVEMENTS (ROADS, UTILITIES, STRUCTURES, ETC.): THE EXISTING AND PROPOSED SITE CONDITIONS, INCLUDING LOT LINE, PROPERTY LINES, AND RIGHT-OF-WAY LINES ARE SHOWN ON THE PLAN AND PROFILE SHEETS.
- A7. HYDROLOGIC UNIT CODE (14 DIGIT): THIS PROJECT IS LOCATED WITHIN THE FOLLOWING HYDROLOGIC UNIT CODE BOUNDARIES: 05120201080090.
- A8. NOTATION OF ANY STATE OR FEDERAL WATER QUALITY PERMITS: THIS PROJECT WILL REQUIRE IDEM SECTION 401 WQC REGIONAL GENERAL PERMIT AND A UNITED STATES ARMY CORPS OF ENGINEERS 404 PERMIT.
- A9. SPECIFIC POINTS WHERE STORM WATER DISCHARGE WILL LEAVE THE SITE: THE SHEET FLOW FROM BOTH PROJECT SITES WILL BOTH FOLLOW ROADSIDE DITCHES OR RECONSTRUCTED SLOPES AND DISCHARGE INTO TAYLOR DITCH/CREEK.
- A10. LOCATION AND NAME OF ALL WETLANDS, LAKES AND WATER COURSES ON AND ADJACENT TO THE SITE: THERE ARE NO KNOWN WETLANDS WITHIN THE PROJECT AREA. WATER COURSE LOCATED WITHIN THE PROJECT IS TAYLOR DITCH/CREEK.
- A11. IDENTIFICATION OF ALL RECEIVING WATERS: THE RECEIVING WATER FOR THIS DRAINAGE AREA WITHIN HUC 05120201080090 IS TAYLOR DITCH/CREEK AND
- A12. IDENTIFICATION OF POTENTIAL DISCHARGES TO GROUND WATER (ABANDONED WELLS, SINKHOLES, ETC.): STORMWATER MAY BE DISCHARGED TO GROUNDWATER THROUGH INFILTRATION WITHIN ROADSIDE DITCHES.
- A13. 100 YEAR FLOODPLAINS, FLOODWAYS AND FLOODWAY FRINGES: FLOOD INSURANCE RATE MAP (FIRMette) FROM THE NATIONAL FLOOD INSURANCE PROGRAM SHOWS THE
- A14. PRE-CONSTRUCTION AND POST- CONSTRUCTION ESTIMATE OF PEAK DISCHARGE (10 YEAR STORM EVENT):
 - ALONG CAL CARSON ROAD: 10 YEAR PRE-CONSTRUCTION STORM - 5.1 C.F.S.
 - 10 YEAR POST-CONSTRUCTION STORM 6.0 C.F.S.

PROJECT LIMITS DO NOT FALL WITHIN A SPECIAL FLOOD HAZARD AREA.

- ALONG 256TH STREET
- 10 YEAR PRE-CONSTRUCTION STORM 3.2 C.F.S. 10 YEAR POST-CONSTRUCTION STORM - 3.9 C.F.S.
- ALONG TAYLOR CREEK UNDER CAL CARSON ROAD BRIDGE: 10 YEAR PRE-CONSTRUCTION STORM - 495 C.F.S. 10 YEAR POST-CONSTRUCTION STORM - 495 C.F.S.
- ALONG TAYLOR CREEK UNDER 256TH STREET BRIDGE: 10 YEAR PRE-CONSTRUCTION STORM - 446 C.F.S.

10 YEAR POST-CONSTRUCTION STORM - 446 C.F.S.

- A15. ADJACENT LAND USE. INCLUDING UPSTREAM WATERSHED:
- THE LAND USES IMMEDIATELY ADJACENT TO THE PROJECT ARE AGRICULTURAL AND RESIDENTIAL.
- A16. LOCATIONS AND APPROXIMATE BOUNDARIES OF ALL DISTURBED AREAS (CONSTRUCTION LIMITS): SEE INCLUDED CONSTRUCTION DRAWINGS FOR THE LOCATIONS AND APPROXIMATE BOUNDARIES OF ALL DISTURBED AREAS.
- A17. IDENTIFICATION OF ALL EXISTING VEGETATIVE COVER: EXISTING VEGETATIVE COVER WITHIN THE PROJECT AREA IS MOSTLY AGRICULTURAL WITH SOME BUSHES AND TREES ALONG TAYLOR DITCH.
- A18. SOILS MAP INCLUDING SOIL DESCRIPTIONS AND LIMITATIONS: PROJECT AREA IS COMPOSED OF BR-BROOKSTON SILTY CLAY LOAM, CrA-CROSBY SILT LOAM, FINE LOAMY SUBSOIL, 0 TO 2 PERCENT SLOPES, MmA-MIAMI SILT LOAM, 0-2 PERCENT SLOPES; MmB2-MIAMI SILT LOAM, 2 TO 6 PERCENT SLOPES, ERODED; Pn-PATTON SILTY CLAY LOAM; Sh-SHOALS SILT LOAM; AND Sx-SLOAN SILTY LOAM, SANDY SUBSTRATUM ACCORDING TO SOILS MAP FROM UNITED STATES DEPARTMENT OF AGRICULTURE, SOIL CONSERVATION "SOIL SURVEY OF HAMILTON COUNTY, INDIANA."
- A19. LOCATIONS, SIZE AND DIMENSIONS OF PROPOSED STORMWATER SYSTEMS (PIPES, SWALES, CHANNELS, ETC): STORMWATER SYSTEM CONSISTS OF SURFACE FLOW VIA A ROADSIDE DITCH AND A DRAINAGE CULVERT.
- A20. PLANS FOR ANY OFF-SITE CONSTRUCTION ACTIVITIES ASSOCIATE WITH THIS PROJECT (SEWER/WATER TIE-INS): THERE ARE NO IMPROVEMENTS ASSOCIATED WITH THIS PROJECT THAT ARE NOT SHOWN WITHIN THE PLANS
- A21. LOCATIONS OF PROPOSED SOIL STOCKPILES AND/OR BORROW/DISPOSAL AREAS: DISPOSAL OF THE EXISTING PAVEMENT WILL BE REQUIRED FOR THIS PROJECT. LOCATION OF THE DISPOSAL AREA WILL BE DETERMINED BY THE CONTRACTOR AND WILL BE IN ACCORDANCE WITH INDOT REQUIREMENTS AND ALL STATE AND LOCAL AGENCY REQUIREMENTS. DITCH STOCKPILES WILL NOT BE USED. THE ONE-STEF METHOD WILL BE USED AND SPOIL WILL BE REMOVED FROM THE SITE. HAMILTON COUNTY SURVEYOR'S OFFICE SITE ENGINEER SHALL APPROVE DISPOSAL SITE(S) FOR DITCH SPOIL.
- A22. EXISTING SITE TOPOGRAPHY AT AN INTERVAL APPROPRIATE TO INDICATE DRAINAGE PATTERNS: SEE PLAN AND PROFILE SHEETS FOR EXISTING SITE TOPOGRAPHY.
- A23. PROPOSED FINAL TOPOGRAPHY AT AN INTERVAL APPROPRIATE TO INDICATE DRAINAGE PATTERNS: SEE PLAN AND PROFILE SHEETS FOR FINAL TOPOGRAPHY.

Stormwater Pollution Prevention Plan

- B1. DESCRIPTION OF POTENTIAL POLLUTANT SOURCES ASSOCIATED WITH CONSTRUCTION ACTIVITIES: POTENTIAL SOURCES OF POLLUTION INCLUDE FUEL AND OIL LEAKAGE FROM EQUIPMENT AND VEHICLES. AND FUELING LOCATIONS, MATERIALS STORAGE, AND SEDIMENT RUNOFF. THE CONTRACTOR SHALL ALSO COMPLY WITH SECTION 106.08, SECTION 107.08, AND SECTION 108.04 OF THE CURRENT INDOT STANDARD SPECIFICATIONS AND ANY SUPPLEMENTS THERETO.
- B2. SEQUENCE DESCRIBING STORMWATER QUALITY MEASURE IMPLEMENTATION RELATIVE TO LAND DISTURBING ACTIVITIES: CONTRACTOR SHALL INSPECT PRACTICES AT LEAST ONCE A WEEK TO MAKE REPAIRS IMMEDIATELY AFTER PERIODS OF RAINFALL DURING ALL PHASES OF THE EROSION CONTROL CONSTRUCTION SEQUENCE.
 - 1. <u>Construction Routes</u>— Stabilize bare areas with stone and temporary vegetation as work takes place
 - per INDOT requirements. All ingress and egress shall utilize existing paved surfaces where possible. <u>Silt Fence</u> — Install principal barriers after construction site is assessed and as land disturbance begins. See details on INDOT Standard drawings included in Appendix D.
 - 3. <u>Rip Rap, Temporary Seeding, Temporary slope drains</u> Apply temporary stabilization measures immediately on all disturbed areas where work is delayed or completed. Follow timeframes allowed per INDOT Standard Specifications for temporary cover.
 - <u>Culvert Replacement</u> Provide sediment control at upstream ends of culverts immediately following
 - Rock Check Dams, Rip Rap, Erosion Control Blanket Install within roadside ditches and side slopes
 - where specified as earthwork progresses. See details on INDOT Standard drawings.
 - Paving, Signage, Guardrail Following earthwork, final pavement surfaces will account for the majority of stabilization on this project.
 - is completed. <u>Construction Close Out</u> — Remove remaining temporary measures after site is stabilized and restore

Permanent Seeding— Install landscape measures as shown on plans after adjacent hardscape work

- <u>Final Site Inspection</u> A final site inspection will take place to assure that all requirements of the SWPPP, construction plans, and supporting documents have been fulfilled. Then a Notice of Termination (NOT) must be submitted to and approved by the Hamilton County SWCD office. The
- NOT form can be found at http://www.in.gov/indot/div/pubs/waterway/Appendix_J-7_Notice_of_Termination.pdf.
- B3. STABLE CONSTRUCTION ENTRANCE LOCATIONS AND SPECIFICATIONS (AT ALL POINTS OF INGRESS AND EGRESS): STABLE CONSTRUCTION ENTRANCE WILL BE PROVIDED AT BOTH ENDS OF THE PROJECT AS PER INDOT STANDARDS AND SPECIFICATIONS.
- SEDIMENT CONTROL MEASURES FOR SHEET FLOW AREAS: SEDIMENT CONTROL MEASURES FOR SHEET FLOW AREAS WILL BE SILT FENCE INSTALLED AND MAINTAINED IN ACCORDANCE WITH SECTION 205 OF THE CURRENT INDOT SPECIFICATIONS AND THE DETAILS ON THE PLANS IN APPENDIX A. RAPID STABILIZATION OF THE CHANNEL WILL ALSO BE EMPLOYED.
- B5. SEDIMENT CONTROL MEASURES FOR CONCENTRATED FLOW AREAS: ROCK CHECK DAMS AND SEDIMENT TRAPS WILL PROVIDE SEDIMENT CONTROL AT ROADSIDE DITCHES THROUGH THE PROJECT AREA. ROCK HORSESHOE CULVERT PROTECTION WILL BE PROVIDED AT NEW CULVERT INLETS. THIS ITEM WILL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE DETAILS ON THE PLANS AND PER THE INDOT STANDARD DETAILS.
- B6. STORM SEWER INLET PROTECTION MEASURE LOCATIONS AND SPECIFICATIONS: NO INLET OR CATCH BASINS ARE PROVIDED IN THIS PROJECT. UPSTREAM ENDS OF CULVERTS WILL BE PROTECTED WITH ROCK HORSESHOE PROTECTION PER THE DETAILS ON THE PLANS.
- B7. RUNOFF CONTROL MEASURES (E.G. DIVERSIONS, ROCK CHECK DAMS, SLOPE DRAINS, ETC.): SILT FENCING WILL BE PROVIDED TO CONTROL RUNOFF FROM THE SITE IN ACCORDANCE WITH SECTION 205 OF THE CURRENT INDOT STANDARD SPECIFICATIONS AND THE DETAILS ON THE PLANS.
- B8. STORM WATER OUTLET PROTECTION SPECIFICATIONS: NOT APPLICABLE TO THIS PROJECT.
- B9. GRADE STABILIZATION STRUCTURE LOCATIONS AND SPECIFICATIONS: CMP DROP STRUCTURE LOCATED AT STA. 8+50. THE PIPE SHALL BE LAID WITH THE OUTSIDE LAPS OF CIRCUMFERENTIAL JOINTS POINTING UPSTREAM AND WITH LONGITUDINAL LAPS AT THE SIDES AT ABOUT THE VERTICAL MIDHEIGHT OF THE PIPE. FIELD WELDING OF CORRUGATED GALVANIZED IRON OR STEEL PIPE WILL NOT BE PERMITTED. THE PIPE SECTIONS SHALL BE JOINED WITH WATER-TIGHT COUPLING BANDS, WITH A MINIMUM WIDTH OF 12 INCHES, OR FLANGES FOR A FLANGE-TYPE CONNECTION. THE AREA BETWEEN PIPE AND COUPLING BAND SHALL BE COATED WITH EITHER AN ASPHALT CEMENT TO INSURE A WATER-TIGHT JOINT.
- B10. LOCATION, DIMENSIONS, SPECIFICATIONS, AND CONSTRUCTION DETAILS OF EACH STORMWATER QUALITY MEASURE: STORMWATER QUALITY WILL BE ADDRESS BY SEEDING OF ALL DISTURBED AREAS IN ACCORDANCE WITH THE
- B11. TEMPORARY SURFACE STABILIZATION METHODS APPROPRIATE FOR EACH SEASON (INCLUDE SEQUENCING): IF REQUIRED DURING CONSTRUCTION, INDOT SEEDING MIXTURE T WILL BE PLACED ON DISTURBED AREAS AT THE RATE OF 170 LB/ACRE THROUGHOUT THE PROJECT IN ACCORDANCE WITH SECTION 621.06 OF THE CURRENT INDOT STANDARD SPECIFICATION.
- B12. PERMANENT SURFACE STABILIZATION SPECIFICATIONS (INCLUDE SEQUENCING): ALL DISTURBED AREAS MUST BE PERMANENTLY STABILIZED. THIS WILL BE ACHIEVED BY SEEDING ALL DISTURBED, UNPAVED AREAS OF THE PROJECT AREA IN ACCORDANCE WITH SECTION 621 OF THE CURRENT INDOT STANDARD SPECIFICATION.
- B13. MATERIAL HANDLING AND SPILL PREVENTION PLAN PRIOR TO THE COMMENCEMENT OF CONSTRUCTION THE CONTRACTOR WILL BE REQUIRED TO SUBMIT A MATERIAL HANDLING AND SPILL PREVENTION PLAN. THE CONTRACTOR IS RESPONSIBLE FOR PREVENTION AND CLEANUP OF ANY OF THESE SOURCES. THE CONTRACTOR IS URGED TO PROTECT THE SITE AND MAINTAIN A SINGLE STORAGE AND FUELING AREA ON SITE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO HANDLE THE POLLUTANT PROPERLY AND RESPOND TO A SPILL. MATERIALS SHOULD BE STORED IN A MANNER THAT PREVENTS OR MINIMIZES THE CHANCE THAT A SPILL WILL REACH SOILS, GROUNDWATER OR SURFACE WATER.
 - IF A SPILL DOES OCCUR, THEN THE SPILL MUST BE CONTAINED IMMEDIATELY UTILIZING APPROPRIATE RESPONSE TECHNIQUES INCLUDING DIKING AND ABSORBENTS. CLEAN UP OF THE SPILL SHOULD OCCUR AS SOON AS POSSIBLE ONCE THE SPILL IS STABILIZED AND CONTAINED. SPILLS SHALL BE CLEANED UP USING ACCEPTABLE METHODS SUCH AS, ABSORBENTS ON IMPERVIOUS SURFACES OR REMOVAL OF CONTAMINATED SOILS. ALL SPILLS THAT OCCUR NEAR AN INLET TO THE STORMWATER CONVEYANCE SYSTEM MUST HAVE "CURBING" IMPLEMENTED IMMEDIATELY. "CURBING" IS THE USE OF A BARRIER (ABSORBENT MATERIAL) WHICH PREVENTS THE SPILL FROM MAKING CONTACT WITH THE STORMWATER CONVEYANCE SYSTEM OR STORMWATER RUNOFF. IN CASE OF A SPILL, ANDY D. CONOVER FROM THE COUNTY SURVEYOR'S OFFICE SHOULD BE CONTACTED AND INFORMED OF THE SITUATION. THE COUNTY SURVEYOR'S OFFICE CAN BE REACHED AT (317) 776-8495. IN ALL CASES CLEANUP STANDARDS MUST ADHERE TO LOCAL, STATE AND FEDERAL REQUIREMENTS. FAILURE TO CLEAN UP ANY SPILL IS A VIOLATION OF THE INDIANA STATE SPILL RULE (327 IAC 2-6.1), WHICH IS ENFORCED BY THE INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT (IDEM). CERTAIN SPILLS MUST BE REPORTED TO THE LOCAL RESPONSE AGENCY, LOCAL EMERGENCY PLANNING COMMITTEE AND/OR IDEM. INITIAL CALLS SHOULD BE MADE TO THE 911 SYSTEM IF THE SPILL EXCEEDS REPORTABLE QUANTITIES OR IS A THREAT TO PUBLIC SAFETY. THE 911 SYSTEM WILL TYPICALLY NOTIFY THE FIRE DEPARTMENT. IDEM (1-888-233-7745) CAN TYPICALLY ASSIST WITH INFORMATION ON CLEAN UP OPERATIONS OR CLEAN UP CONTRACTORS.
- B14. MONITORING AND MAINTENANCE GUIDELINES FOR EACH PROPOSED STORMWATER QUALITY MEASURE: ON-SITE MONITORING WILL BE PERFORMED BY THE OWNER'S REPRESENTATIVE IN COOPERATION WITH THE CONTRACTOR. THE CONTRACTOR SHALL MONITOR THE FOLLOWING MEASURES, AS WELL AS ANY OTHER ADDITIONAL MEASURES INSTALLED ON SITE: SILT FENCE, ROCK CHECK DAMS, ALONG WITH CLEANUP OF SEDIMENT TRACKED OFFSITE. MAINTENANCE SHALL INCLUDE KEEPING AN UP-TO-DATE RECORD ONSITE OF ANY ALTERATIONS TO THE STORMWATER POLLUTION PREVENTION PLAN PER THE GENERAL NOTES ON THE PLANS. ALL MAINTENANCE GUIDELINES SHALL FOLLOW LATEST EDITION OF INDOT STANDARD SPECIFCIATIONS.

MONITORING AND MAINTENANCE GUIDELINES FOR EACH PROPOSED STORMWATER QUALITY MEASURE: THERE IS NO CONSTRUCTION ON INDIVIDUAL BUILDING LOTS ASSOCIATED WITH THIS PROJECT

Stormwater Pollution Prevention Plan-

Post Construction Component

- DESCRIPTION OF POLLUTANTS AND THEIR SOURCES ASSOCIATED WITH PROPOSED LAND USE: THIS PROJECT POLLUTANT SOURCES WILL BE SIMILAR TO THOSE ALREADY EXISTING IN THE PROJECT AREA. POLLUTANTS THAT MAY BE GENERATED DURING CONSTRUCTION INCLUDE OIL, GREASE, ANTIFREEZE, BRAKE FLUID, BRAKE DUST, RUBBER, GASOLINE, DIESEL, METALS, GRIT, TRASH, ROAD SALT AND SAND.
- SEQUENCING DESCRIBING STORMWATER QUALITY MEASURE IMPLEMENTATION: PERMANENT SEEDING WILL BE COMPLETED FOR ALL DISTURBED AREAS AFTER CONSTRUCTION IS COMPLETED AND FINAL GRADING IS IN PLACE.
- DESCRIPTION OF PROPOSED POST CONSTRUCTION STORMWATER MEASURES (INCLUDE A WRITTEN DESCRIPTION OF HOW THESE MEASURES WILL REDUCE DISCHARGE OF EXPECTED POLLUTANTS) POST CONSTRUCTION STORMWATER QUALITY MEASURES INCLUDE PERMANENT SEEDING WHICH WILL SLOW WATER RUNOFF FROM THE SITE, AND ENCOURAGE SETTLING OF POLLUTANTS AND INFILTRATION.
 - ROADWAY DITCHES WITH MORE THAN 0.99% LONGITUDINAL SLOPES WILL BE SODDED. PERMANENT RIPRAP PROTECTION WILL BE PROVIDED AT OUTSIDE BRIDGE ABUTMENTS
- LOCATION, DIMENSIONS, SPECIFICATIONS, AND CONSTRUCTION DETAILS OF EACH STORMWATER QUALITY MEASURE: SEE PLANS AND REFER TO SECTION 621 & 622 OF THE CURRENT INDOT STANDARD SPECIFICATION FOR ADDITIONAL LANDSCAPE INFORMATION.
- DESCRIPTION OF MAINTENANCE GUIDELINES FOR POST CONSTRUCTION STORMWATER QUALITY MEASURE: WATER QUALITY MEASURES AS DESCRIBED IN ITEMS C3 AND C4 WILL BE MAINTAINED BY HAMILTON COUNTY FOLLOWING CONSTRUCTION COMPLETION. MAINTENANCE SHOULD, INCLUDE AT MINIMUM, REGULAR MOWING AND MONITORING OF THE SITE FOR ANY EROSION OR BARE SPOTS.

GENERAL EROSION CONTROL CONSTRUCTION SEQUENCE (SPECIFIC ACTIVITIES OR EROSION CONTROL PRACTICES) BEFORE CONSTRUCTION, EVALUATE, MARK, AND PROTECT IMPORTANT TREES AND ASSOCIATED ROOTING ZONES, UNIQUE AREAS (e.g., WETLANDS) TO BE PRESERVED, (EVALUATION/PROTECTION OF IMPORTANT SITE ON-SITE SEPTIC SYSTEM ABSORPTION FIELDS, AND CHARACTERISTICS) VEGETATION SUITABLE FOR FILTER STRIPS, ESPECIALLY IN PROJECT PERIMETER AREAS. STABILIZE BARE AREAS PRIOR TO LAND DISTURBANCE WITH STONE AND TEMPORARY VEGETATION AS WORK TAKES PLACE. AS SITE ACCESS IS MADE ALL INGRESS AND EGRESS POINTS SPECIFIED BY PLANS SHALL BE STABILIZED. CONSTRUCTION ENTRANCES, CONSTRUCTION ROUTES, EQUIPMENT PARKING AREAS) INSTALL PRINCIPAL BARRIERS AFTER CONSTRUCTION SITE IS ASSESSED AND AS LAND DISTURBANCE BEGINS. INSTALL (BASIN TRAPS, SILT FENCES, OUTLET PROTECTION) ADDITIONAL TRAPS AND BARRIERS AS NEEDED DURING GRADING INSTALL PRACTICES IMMEDIATELY AFTER PRINCIPAL SEDIMENT (DIVERSIONS, PERIMETER DIKES, WATER BARS, OUTLET PROTECTION) BARRIERS ARE INSTALLED BUT BEFORE SITE GRADING BEGINS. INSTALL ADDITIONAL RUNOFF CONTROL MEASURES DURING GRADING AS NEEDED. WHERE NECESSARY, INSTALL EROSION CONTROL (STORM DRAINS, INLET AND OUTLET PROTECTION, MEASURSES AS EARLY AS POSSIBLE. INSTALL PRINCIPA CONVEYANCE SYSTEM WITH RUNOFF CONTROL MEASURES. CHANNELS) INSTALL REMAINDER OF SYSTEM AFTER GRADING. BEGIN MAJOR CLEARING AND GRADING AFTER INSTALLING THE KEY SEDIMENT AND RUNOFF MEASURES. CLEAR (CUTTING/FILLING, GRADING DRAINS, SEDIMENT TRAPS, BORROW AND DISPOSAL AREAS AS NEEDED. INSTALL BARRIERS, DIVERSIONS, SURFACE ROUGHENING) ADDITIONAL CONTROL MEASURES AS GRADING PROGRE ADDITIONAL CONTROL MEASURES AS GRADING PROGRESSES. SPOIL AREAS SHOULD BE PROTECTED FROM ALLOWING OFFSITE APPLY TEMPORARY OR PERMANENT STABILIZATION TEMPORARY AND PERMANENT SEEDING, MULCHING, MEASURES IMMEDIATELY ON ALL DISTURBED AREAS SODDING, RIP-RAP) WHERE WORK IS DELAYED OR COMPLETED. INSTALL AND MAINTAIN NECESSARY EROSION AND SEDIMENT CONTROL PRACTICES AS WORK TAKES PLACE. (BUILDING, UTILITIES, PAVING) STABILIZE ALL OPEN AREAS INCLUDING BORROW AND SPOIL AREAS. REMOVE TEMPORARY CONTROL MEASURES AND STABILIZE. INSPECT PERMANENT BARRIERS AND PRACTICES (TOPSOIL, TREES, AND SHRUBS, PERMANENT SEEDING, MULCHING, SODDING, RIP-RAP) $\,$ AND MAINTAIN AS NEEDED. MAINTAIN POST CONSTRUCTION WATER QUALITY STRUCTURES AS NECESSARY. REMOVE TEMPORARY MEASURES. MAINTAIN AS NEEDED. CONSTRUCTION CLOSE OUT

*MAINTENANCE——(1)INSPECT PRACTICES AT LEAST ONCE A WEEK, & (2) MAKE REPAIRS IMMEDIATELY AFTER PERIODS OF RAINFALL.

GENERAL SEEDING NOTES:

B. SPRING OR LATE FALL MIX:

- 1. FERTILIZER AND AGRICULTURAL LIMESTONE SHALL BE SPREAD UNIFORMLY OVER THE AREA TO BE SEEDED. THEY SHALL BE MIXED INTO THE TOP 2" OF SOIL WITH A DISK HARROW, ROTARY TILLER, OR OTHER APPROVED EQUIPMENT. FERTILIZER SHALL BE SPREAD AT THE RATE OF 800 POUNDS PER ACRE, AND AGRICULTURAL LIMESTONE AT THE RATE OF 1/2 TON PER ACRE UNLESS OTHERWISE SPECIFIED.
- 2. TEMPORARY SEEDING: THE AREAS WHERE STRIPPING, CUTS OR FILLS HAVE BEEN GRADED SHALL BE SEEDED FOR SILT AND EROSION PROTECTION WITH ONE OF THE FOLLOWING METHODS:

100% ANNUAL RYE

- A. EARLY SPRING MIX: 100% OATS SEEDING RATE: 50 LBS./ACRE
- SEEDING RATE: 50 LBS./ACRE C. FALL MIX: 100% PERENNIAL RYE
- **SEEDING RATE:** 50 LBS./ACRE STRAW OR MULCH AS APPROVED BY THE ENGINEER SHALL BE APPLIED AT A RATE OF 2 TONS PER ACRE.
- 3. HYDRO-SEEDING: HYDRO-SEEDING SHALL BE AS PER INDOT SPECIFICATIONS, SECTION 621, DATED 1988. FERTILIZER SHALL BE 12-12-12 APPLIED AT THE RATE OF 400 POUNDS PER ACRE. SEED MIXTURE SHALL BE 60 POUNDS PER ACRE OF PERENNIAL RYE GRASS AND 60 POUNDS PER ACRE OF KENTUCKY 31 FESCUE OR ALTA FESCUE.
- 4. MAINTENANCE: INSPECT WEEKLY AND AFTER EACH RAINFALL EVENT. RESEED AND REMULCH BARREN OR STRIPPED AREAS.

APPROXIMATE SEEDING DATES FOR CENTRAL INDIANA

	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT	OCT.	NOV.	DEC
WHEAT OR RYE												
OATS												
ANNUAL RYEGRASS												
					///////		<i>1</i> 000000000000000000000000000000000000	********	*//////			
						<i></i>		*********	3 //////	a		
NON-IRRIGATED*									W //	·		

IRRIGATION NEEDED DURING THIS PERIOD TO CONTROL EROSION AT TIMES OTHER THAN IN THE SHADED AREAS. USE MULCH.

- * LATE SUMMER SEEDING DATES MAY BE EXTENDED 5 DAYS IF MULCH IS APPLIED.
- ** INCREASE SEEDING APPLICATION BY 50%.

STABILIZATION PRACTICE	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DE
PERMANENT SEEDING		A			*///	/1/	///*	*	/1 <i>/</i> -			
DORMANT SEEDING	В—									B		-
TEMPORARY SEEDING		C-	E		*//	/1/	Ď //*					
SODDING		F	**		*/	///	/1//	///*-	Å			
MULCHING	G—											
	_											

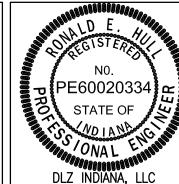
- A KENTUCKY BLUEGRASS 100 LBS./ACRE; CREEPING RED FESCUE 100 LBS./ACRE; PLUS 2 TONS STRAW MULCH/ACRE, OR ADD ANNUAL RYEGRASS 20 LBS./ACRE
- B KENTUCKY BLUEGRASS 120 LBS./ACRE; CREEPING RED FESCUE 120 LBS./ACRE; PLUS 2 TONS STRAW MULCH/ACRE, OR ADD ANNUAL RYEGRASS 20 LBS./ACRE
- C SPRING OATS 5 BUSHELS/ACRE
- D WHEAT OR RYE 2 BUSHELS/ACRE
- E ANNUAL RYEGRASS 40 LBS./ACRE (1 LB/1000 SQ. FT.)
- F 500
- G STRAW MULCH 2 TONS/ACRE
- /1/* IRRIGATION NEEDED DURING JUNE, JULY, AUGUST AND/OR SEPTEMBER
- ** IRRIGATION NEEDED FOR 2 TO 5 WEEKS AFTER SUPPLYING SOD

MAINTENANCE:

- 2. INSPECT WEEKLY, AND AFTER EACH RAINFALL EVENT.
- 3. RESEED/REMULCH THIN SPOTS AS NECESSARY.







RECOMMENDED FOR APPROVAL	DESIGN E	ENGINEER	7/26/2016 DATE	
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CHECKED:	RH	CHECKED:J	L	

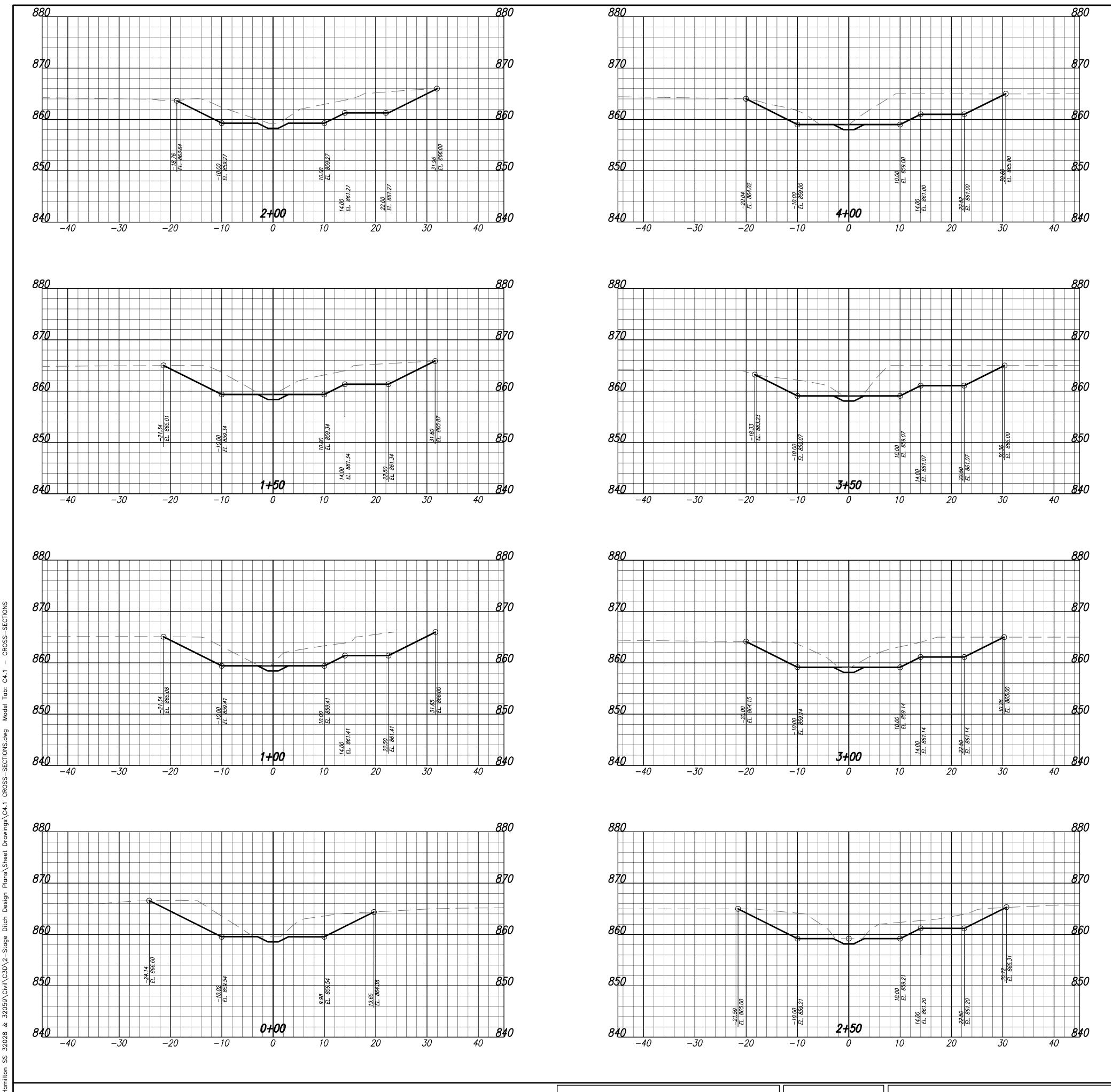
HAMILTON COUNTY HIGHWAY DEPARTMENT

EROSION CONTROL DETAILS TAYLOR CREEK LEGAL DRAIN

HAMILTON 303 N.T.S. VERTICAL SCALE DESIGNATION SHEETS SURVEY BOOK **ELECTRONIC** 28 of 39 PROJECT CONTRACT HCHD PB-13-0003

BRIDGE FILE

HORIZONTAL SCALE

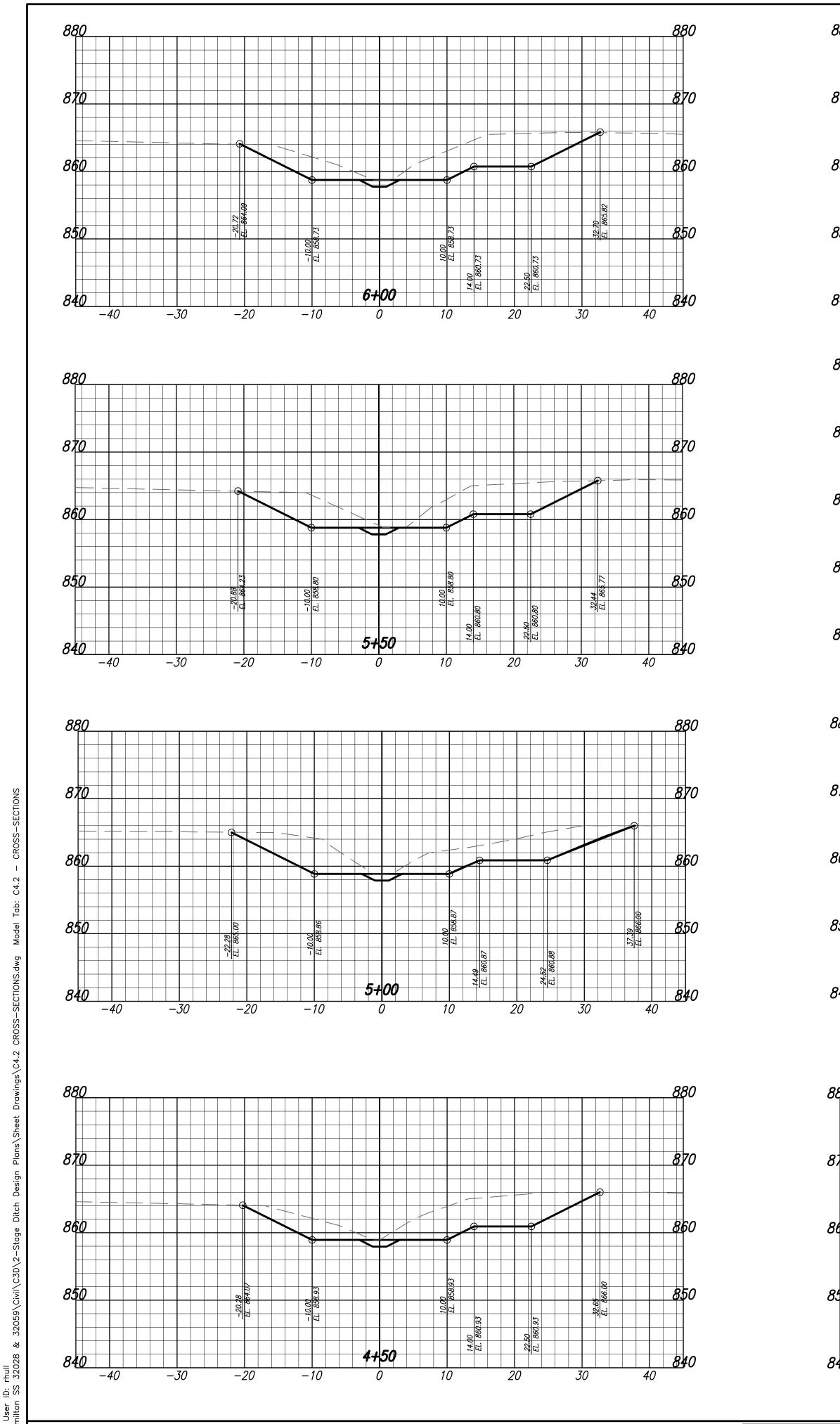


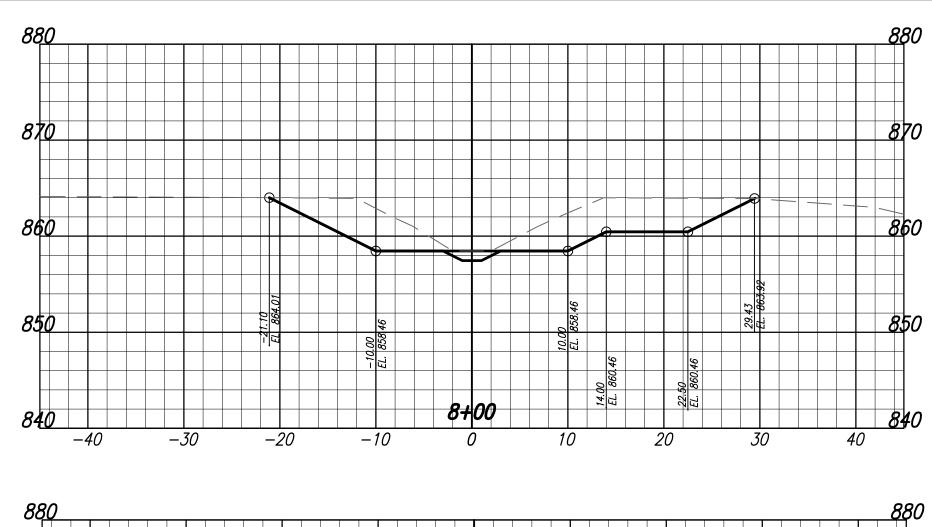
			Total	Volume To	able		
Station	Cut Area	Fill Area	Cut Vol	Fill Vol	Cum Cut Vol	Cum Fill Vol	Net Vol
0+00.00	159.52	0.00	0.00	0.00	0.00	0.00	0.00
0+50.00	314.65	0.00	439.05	0.00	439.05	0.00	439.05
1+00.00	148.45	0.00	428.80	0.00	867.84	0.00	867.84
1+50.00	145.13	0.00	271.83	0.00	1139.68	0.00	1139.68
2+00.00	129.89	0.00	254.65	0.00	1394.32	0.00	1394.32
2+50.00	127.12	0.00	237.97	0.00	1632.30	0.00	1632.30
3+00.00	141.07	0.00	248.32	0.00	1880.62	0.00	1880.62
3+50.00	144.35	0.00	264.28	0.00	2144.90	0.00	2144.90
4+00.00	145.41	0.00	268.30	0.00	2413.19	0.00	2413.19

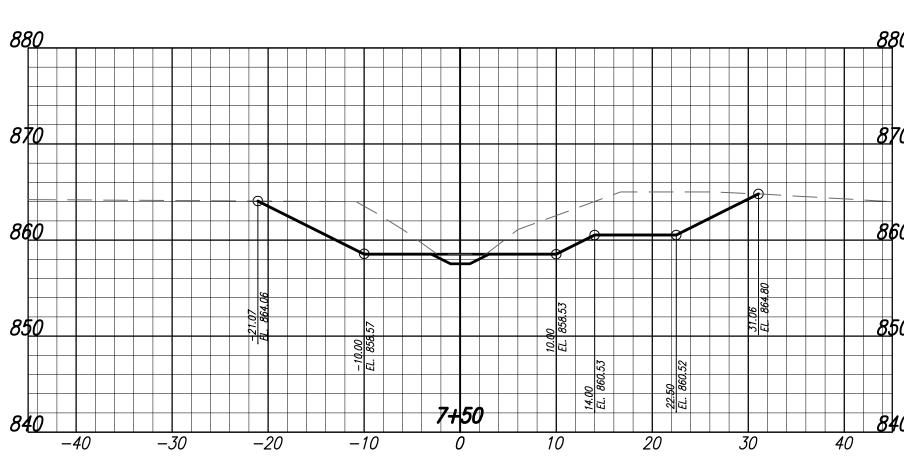


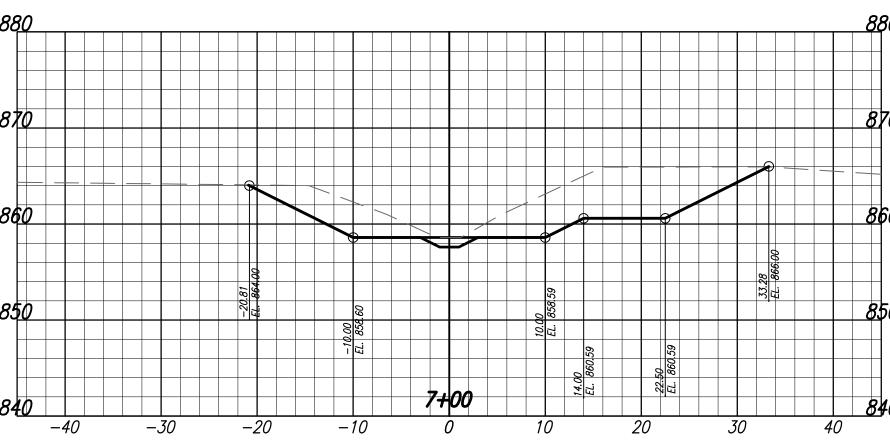
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	DESIGN I	DATE		
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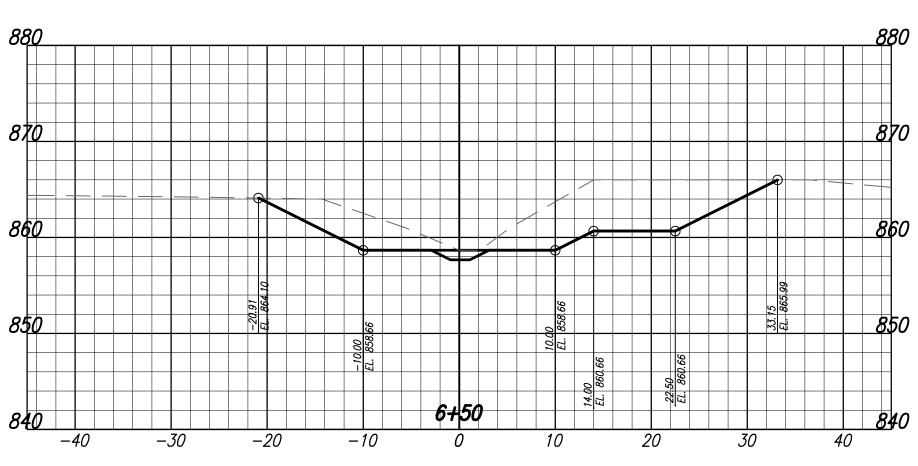
	HORIZONTAL SCALE	BRIDGE FILE		
HAMILTON COUNTY	1"=10'	HAMILTON 303		
HIGHWAY DEPARTMENT	VERTICAL SCALE	DESIGNATION		
IIIGIIWAI DEI ARTIMENT	1"=10'			
CROSS-SECTIONS - LINE 'T'	SURVEY BOOK	SHEETS		
CKO22-2ECHON2 - LINE I	ELECTRONIC	29 of 39		
TAYLOR CREEK LEGAL DRAIN	CONTRACT	PROJECT		
TATEON ONLEN LEGAL DIVAIN	_	HCHD PB-13-003		











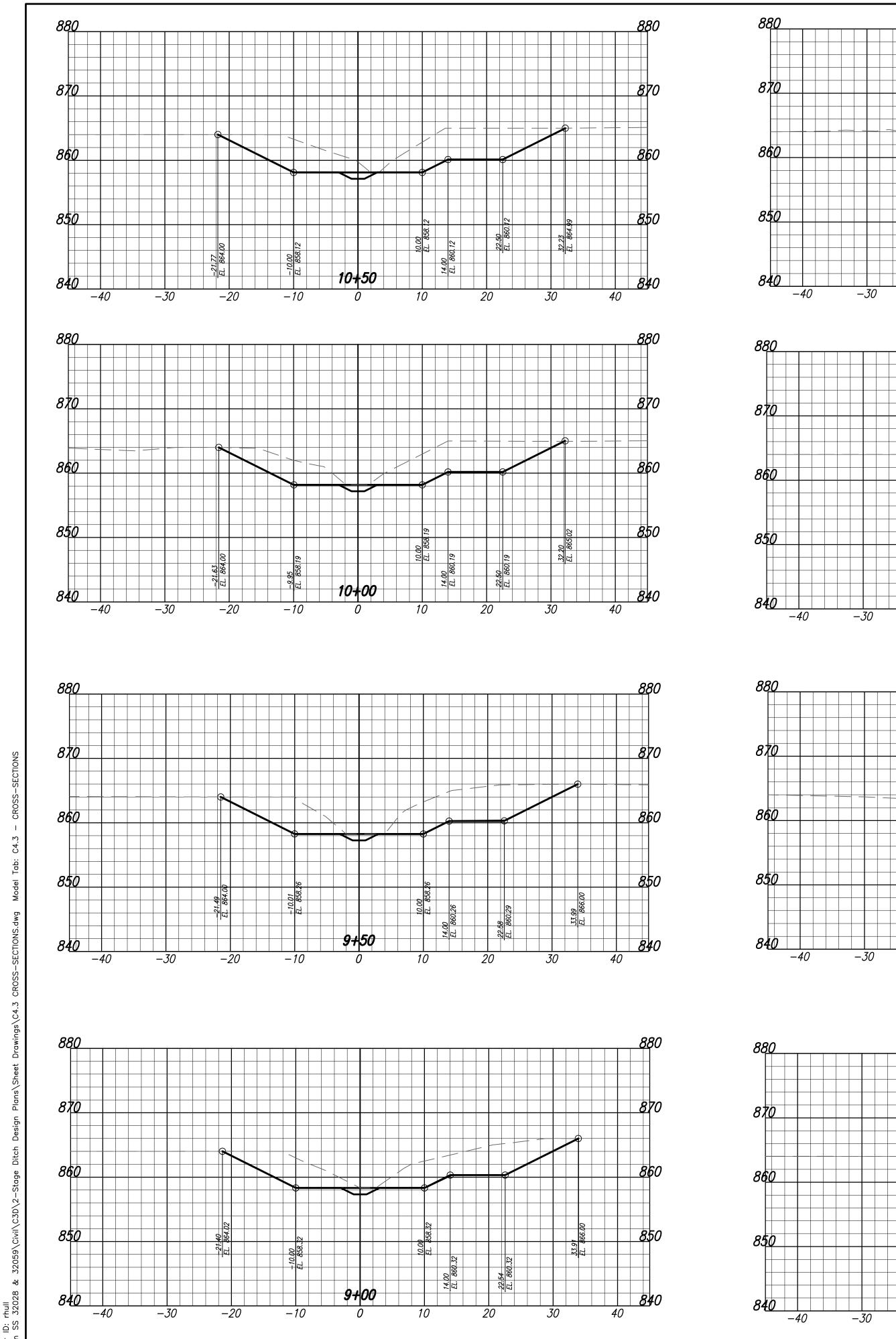
340	<u>- 17</u>	FL-1	8+50	10.00 EL. 855 14.00 EL. 860.39	22.50 El. 860.39	32	840
350	17.69 FL. 861.39	FL. 858.39		10.00 E1. B58.39 600.39	50.39	30.00 EL. 864.12	850
60							860
370							870

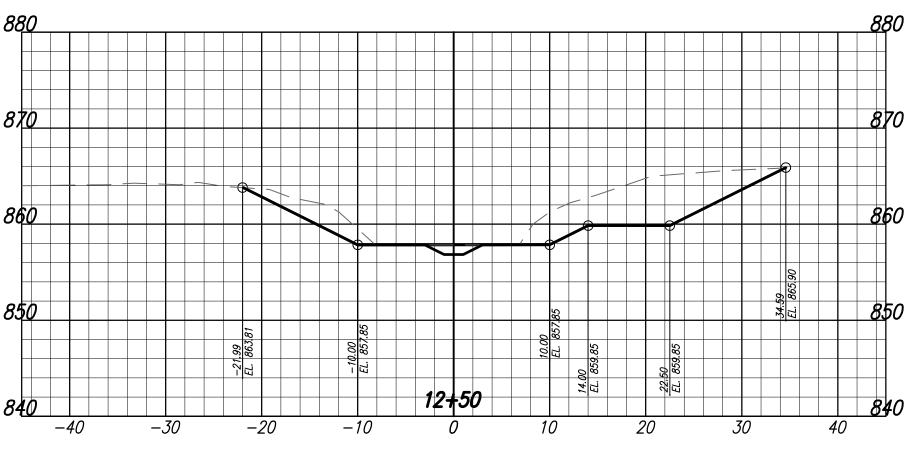
			Total	Volume To	able		
Station	Cut Area	Fill Area	Cut Vol	Fill Vol	Cum Cut Vol	Cum Fill Vol	Net Vol
4+50.00	159.73	0.00	282.54	0.00	2695.73	0.00	2695.73
5+00.00	170.08	0.00	305.38	0.00	3001.11	0.00	3001.11
5+50.00	166.94	0.00	312.06	0.00	3313.17	0.00	3313.17
6+00.00	161.13	0.00	303.77	0.00	3616.94	0.00	3616.94
6+50.00	181.21	0.00	316.98	0.00	3933.92	0.00	3933.92
7+00.00	176.57	0.00	331.28	0.00	4265.19	0.00	4265.19
7+50.00	164.05	0.00	315.39	0.00	4580.58	0.00	4580.58
8+00.00	148.56	0.00	289.45	0.00	4870.04	0.00	4870.04
8+50.00	116.70	0.00	245.61	0.00	5115.65	0.00	5115.65
6+50.00 7+00.00 7+50.00 8+00.00	181.21 176.57 164.05 148.56	0.00 0.00 0.00 0.00	316.98 331.28 315.39 289.45	0.00 0.00 0.00 0.00	3933.92 4265.19 4580.58 4870.04	0.00 0.00 0.00 0.00	35 42 45 46

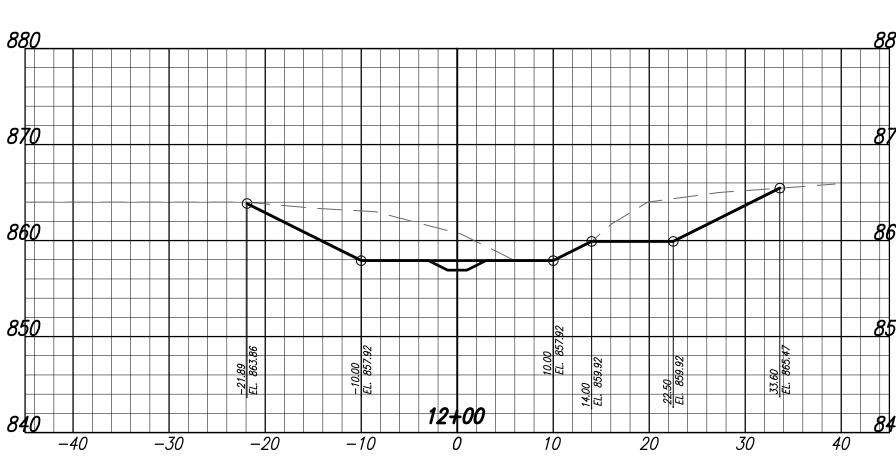


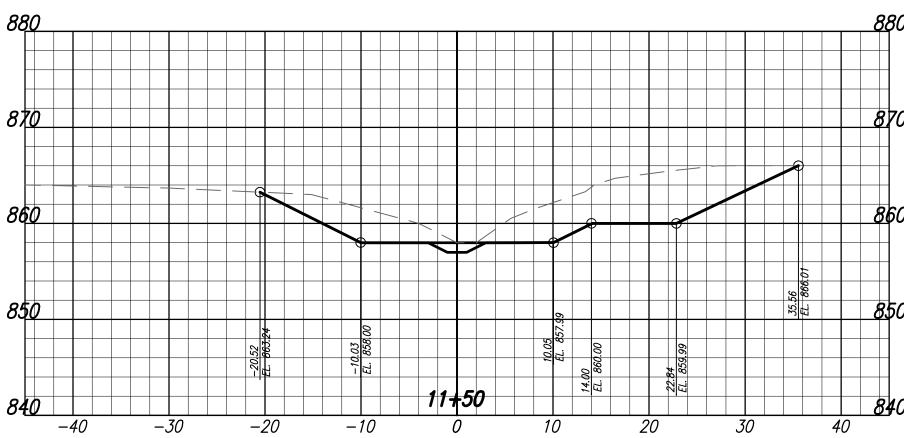
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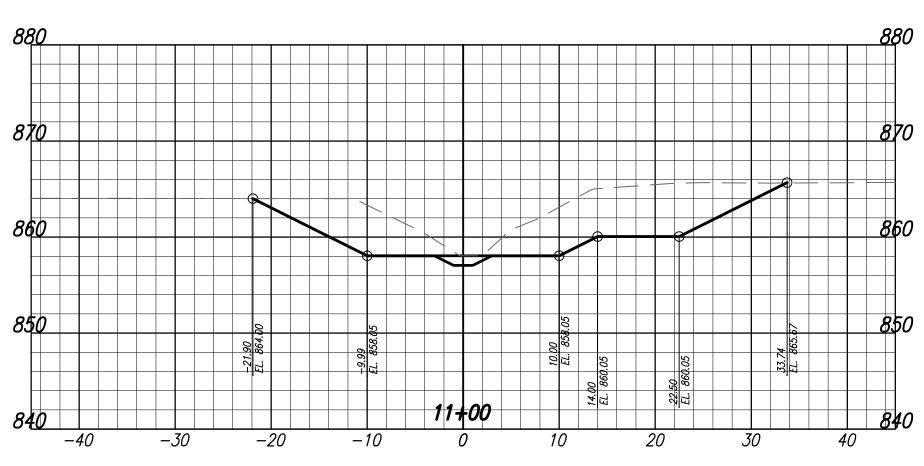
TIANTI MONI COLINIMA	HORIZONTAL SCALE	BRIDGE FILE		
HAMILTON COUNTY	1"=10'	HAMILTON 303		
HIGHWAY DEPARTMENT	VERTICAL SCALE	DESIGNATION		
IIIGIIWAI DEI ARTIMENT	1"=10'			
CROSS-SECTIONS - LINE 'T'	SURVEY BOOK	SHEETS		
CKO33-3ECHON3 - LINE I	ELECTRONIC	30 of 39		
TAYLOR CREEK LEGAL DRAIN	CONTRACT	PROJECT		
TATEON ONLEN LEGAL BRAIN	_	HCHD PB-13-003		











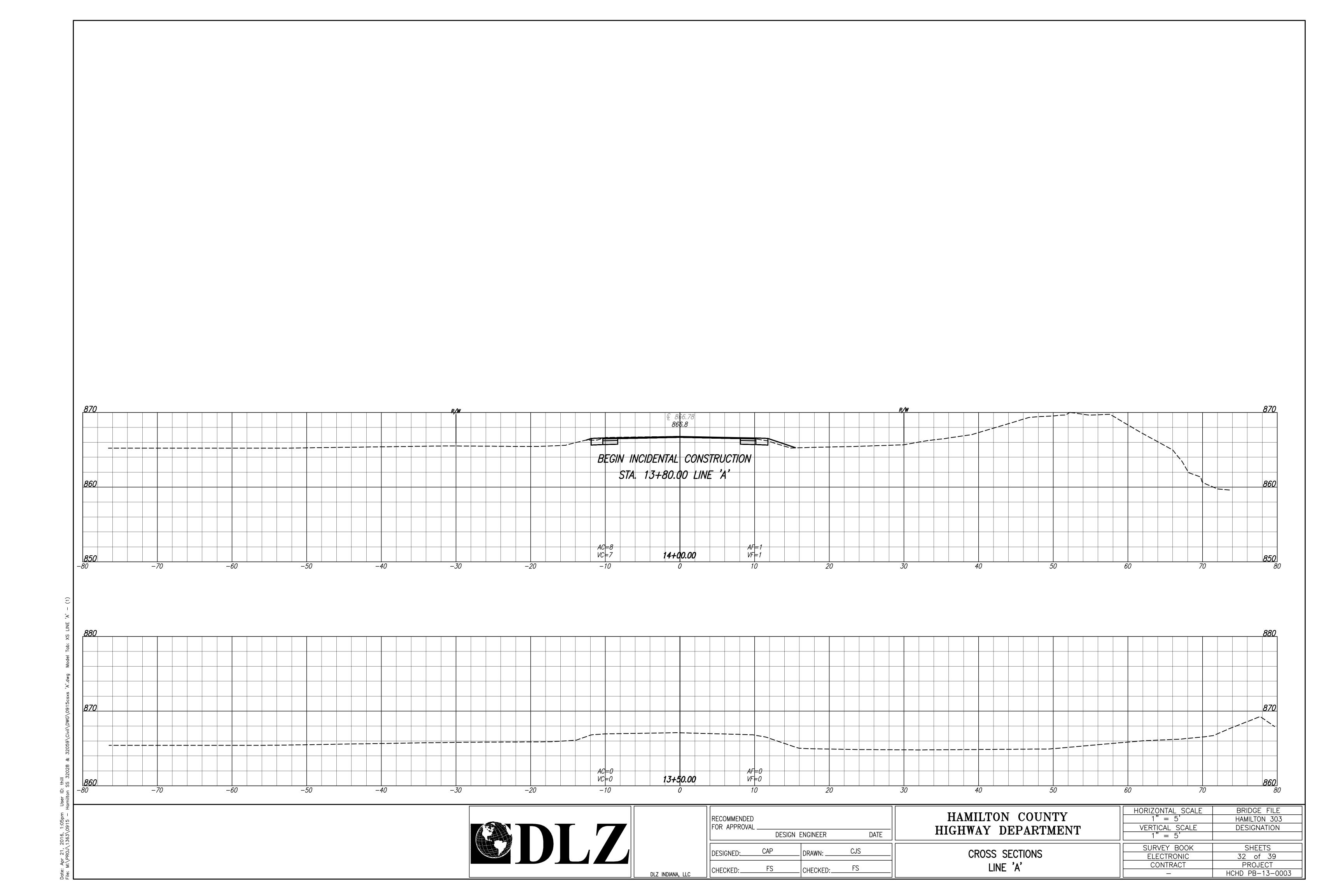
880 								880
870								870
860								860
350							34.94 El. 866.00	850
		363.29	10.00		10.00 FI. 857.78 9.78	78		
		-21,17 EL. 8633	-10.0 FL. 8	47.00	14.00 EL. 859.)	22,50 EL. 859.78		
8 40 -40	-30	-20	-10	13+00 0	10	20	30	840

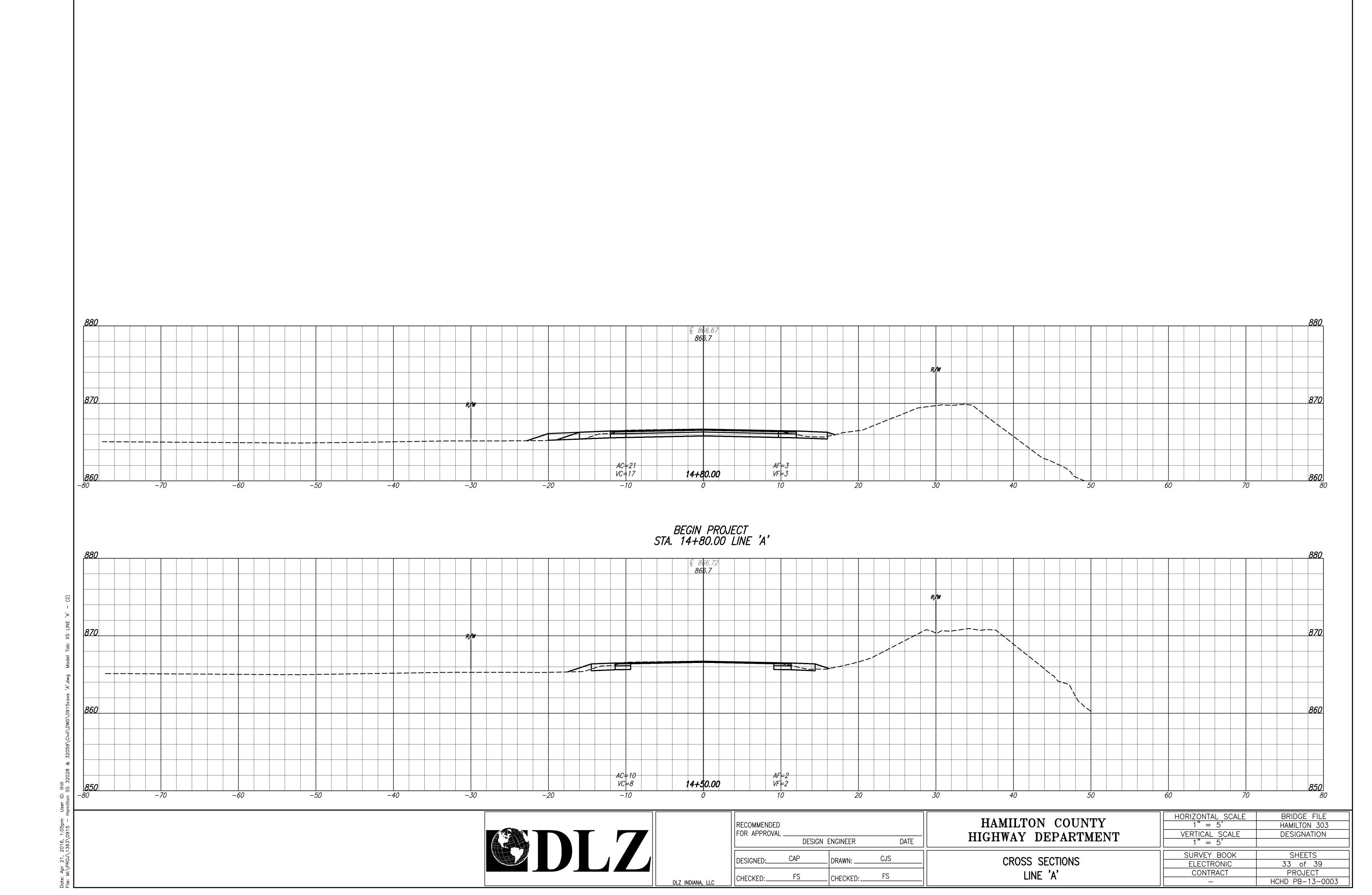
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Station	Cut Area	Fill Area	Cut Vol	Fill Vol	Cum Cut Vol	Cum Fill Vol	Net Vol	
9+00.00	176.05	0.00	271.06	0.00	5386.71	0.00	5386.71	
9+50.00	199.42	0.00	347.66	0.00	5734.37	0.00	5734.37	
10+00.00	168.38	0.00	340.56	0.00	6074.93	0.01	6074.92	
10+50.00	181.81	0.00	324.25	0.00	6399.18	0.01	6399.17	
11+00.00	196.02	0.00	349.84	0.00	6749.02	0.01	6749.01	
11+50.00	174.75	0.00	343.31	0.00	7092.32	0.01	7092.31	
12+00.00	151.75	0.00	302.31	0.00	7394.64	0.01	7394.63	
12+50.00	148.85	0.00	278.33	0.00	7672.97	0.01	7672.96	
13+00.00	183.70	0.01	307.92	0.00	7980.89	0.01	7980.88	



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HAMILTON COUNTY HIGHWAY DEPARTMENT	HORIZONTAL SCALE 1"=10' VERTICAL SCALE 1"=10'	BRIDGE FILE HAMILTON 303 DESIGNATION
CROSS-SECTIONS - LINE 'T'	SURVEY BOOK ELECTRONIC	SHEETS 31 of 39
TAYLOR CREEK LEGAL DRAIN	CONTRACT —	PROJECT HCHD PB-13-003



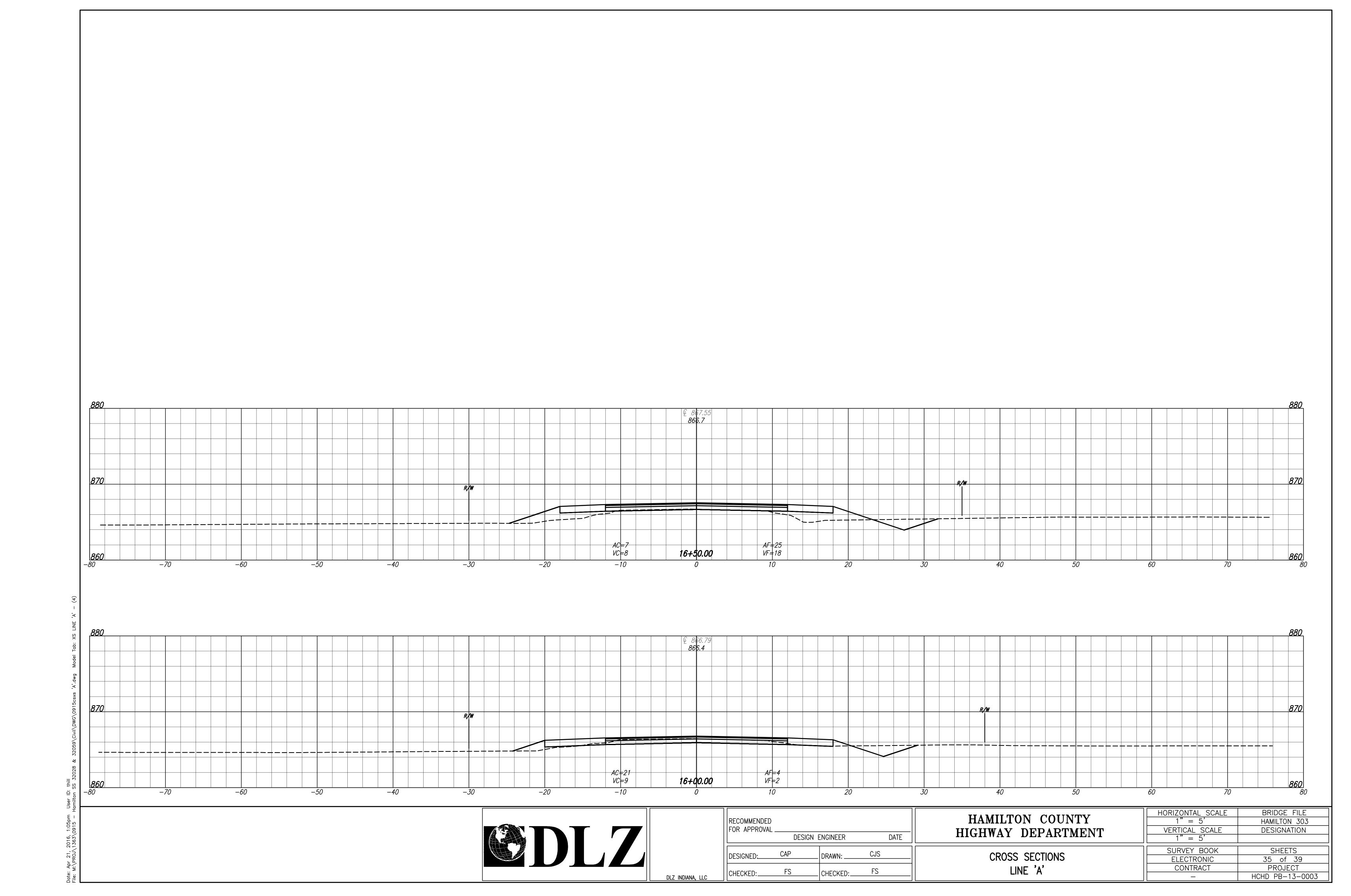




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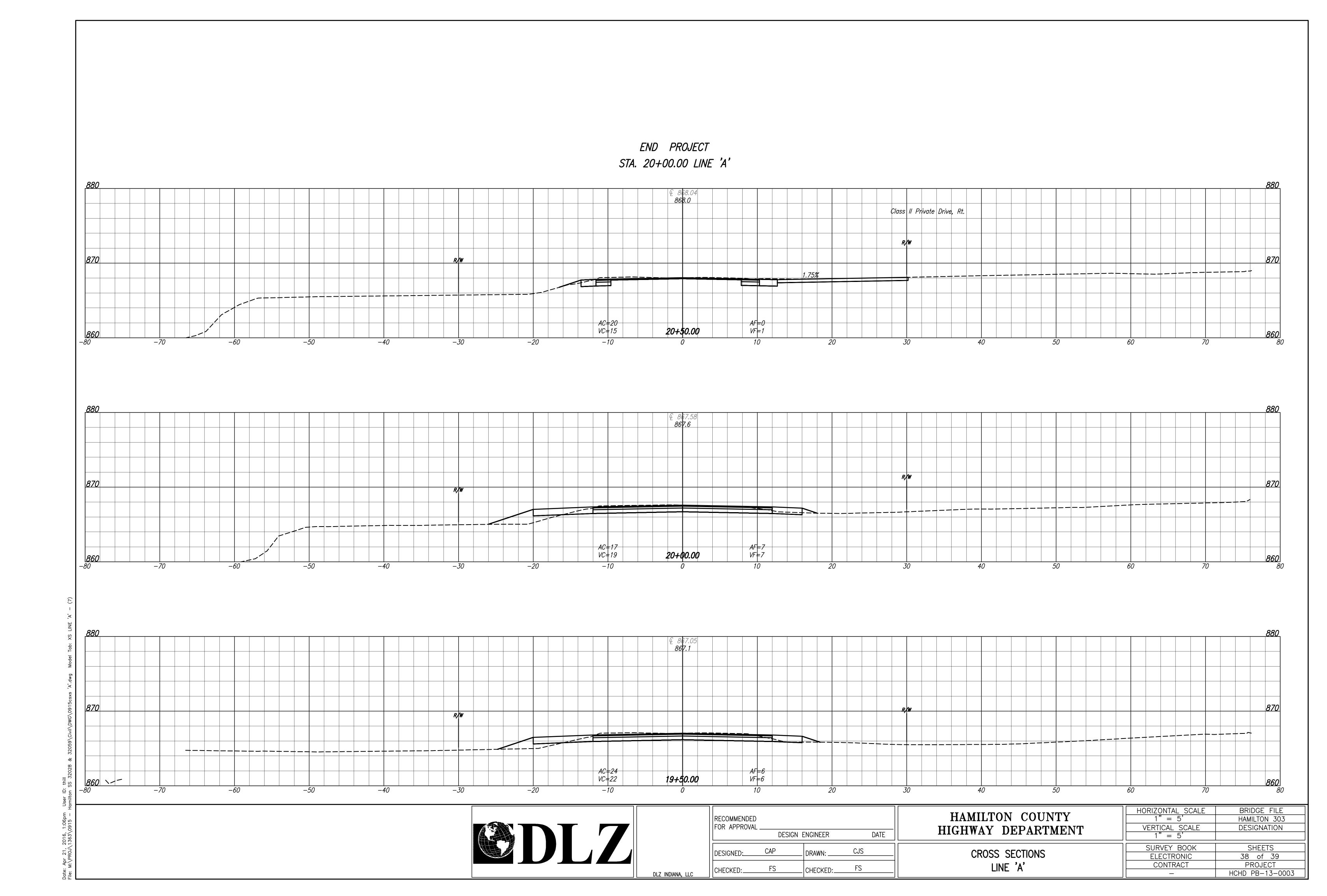
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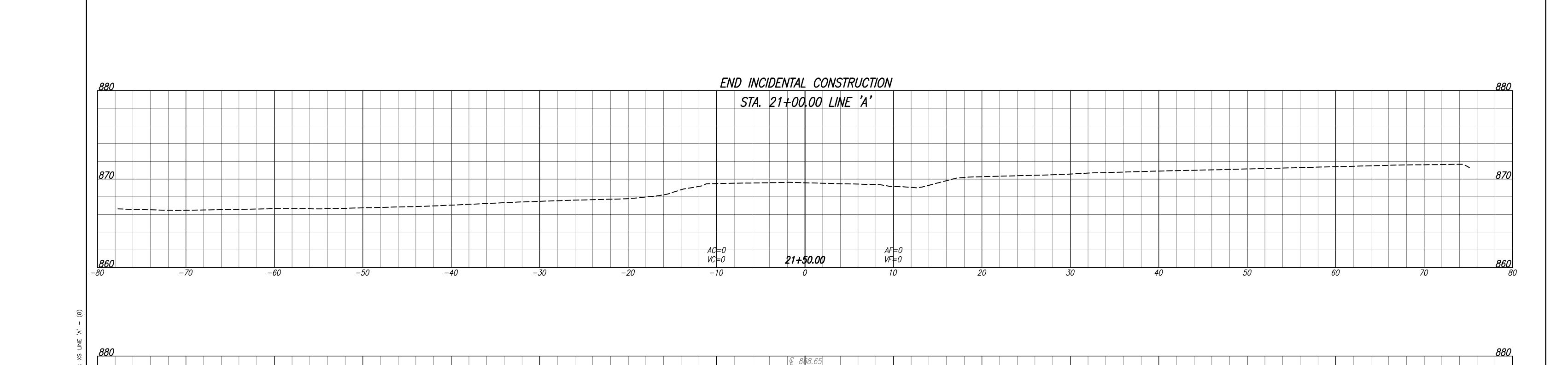
CHECKED:_











21+00.00

DLZ INDIANA, LLC

RECOMMENDED FOR APPROVAL _

DESIGNED:___

CHECKED:_

DESIGN ENGINEER

CHECKED:_

DATE

CJS

FS

BRIDGE FILE HAMILTON 303

DESIGNATION

SHEETS
39 of 39
PROJECT
HCHD PB-13-0003

HORIZONTAL SCALE 1" = 5'

VERTICAL SCALE 1" = 5'

SURVEY BOOK

ELECTRONIC CONTRACT

HAMILTON COUNTY

HIGHWAY DEPARTMENT

CROSS SECTIONS

LINE 'A'